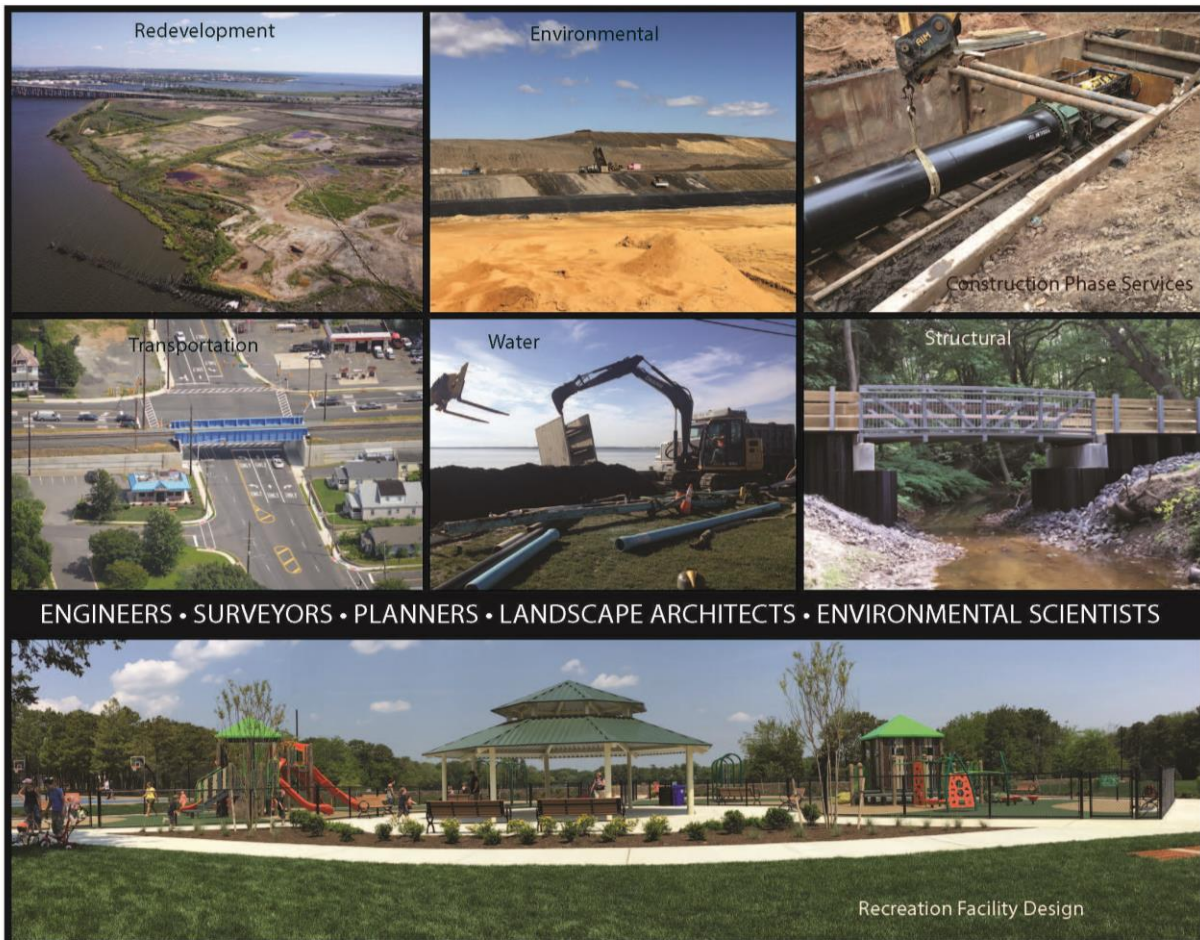




PROPOSAL FOR THE POSITION OF LICENSED SITE REMEDIATION PROFESSIONAL FOR THE YEAR 2019

SUBMITTED TO:
Borough of Roselle Park
QUALIFIED PURCHASING AGENT
110 East Westfield Avenue
Roselle Park, NJ 07204

November 30, 2018



Consulting & Municipal ENGINEERS

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JOHN H. ALLGAIR, PE, PP, LS (1983-2001)
DAVID J. SAMUEL, PE, PP, CME
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MICHAEL J. McCLELLAND, PE, PP, CME
GREGORY R. VALES, PE, PP, CME

TIMOTHY W. GILLEN, PE, PP, CME
BRUCE M. KOCH, PE, PP, CME
LOUIS J. PLOSKONKA, PE, CME
TREVOR J. TAYLOR, PE, PP, CME
BEHRAM TURAN, PE, LSRP

November 30, 2018

Attn: Andrew J. Casais, RMC, QPA, Qualified Purchasing Agent
Roselle Park Borough Hall
110 East Westfield Avenue
Roselle Park, NJ 07204

Re: Proposal for the Borough of Roselle Park- 2019 Licensed Site Remediation Professional

Dear Mr. Casais:

CME Associates is pleased to submit for your consideration this response to the Request for Proposals for **2019 Licensed Site Remediation Professional** for the Borough of Roselle Park. Please find one (1) original and one (1) digital copy on CD-ROM of the response. Forms and Required Submission Information are provided in **Section 1**.

BRIEF INTRODUCTION TO CME ASSOCIATES

CME Associates is a multi-disciplined consulting engineering firm dedicated to providing a high quality of professional Engineering and Environmental services. CME Associates provides a complete range of services that would serve to be instrumental in fulfilling the Borough's required Environmental Consulting and LSRP Services in a cost-effective and timely manner.

CME Associates presently has a total staff of over 200 people in its six (6) offices in New Jersey (Monmouth Junction, Parlin, Howell, Pleasantville, Barnegat, and Camden). The Environmental Consulting services for the Borough will be primarily provided by the Monmouth Junction office; contact information is provided below:

Behram Turan, P.E., LSRP - Principal
Director of Environmental Engineering Services

CME Associates
3759 U.S. Hwy 1 South – Suite 100
Monmouth Junction, NJ 08852
Email: bturan@cmeusa1.com
Telephone: (732) 951-2101
Fax: (732) 951-2106

Additional information related to the CME Associates' qualifications is provided in **Section 3**.



Attn: Andrew J. Casais, RMC, QPA
Qualified Purchasing Agent
Borough of Roselle Park

November 30, 2018
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Re: Proposal for 2019 Licensed Site Remediation Professional

PROJECT APPROACH

CME Associates will manage the project(s) in a manner that will save time and cost. Examples of CME Associates streamlined project approach include:

- In-depth review of previous site-specific documents
- Open and good communication lines between the CME Project Manager and the Borough's assigned point of contact
- Define project goals and communicate to entire project team, including subcontractors/vendors
- Use appropriate level personnel for assigned tasks
- Planning for field events to minimize mobilization

In accordance with the RFP, CME is confident that it can fulfill the needs to the satisfaction of the Borough due to the following qualities:

- CME has extensive environmental engineering experience and a highly regarded reputation in the field. CME Associates has been providing professional LSRP services to municipalities and County agencies including large scale brownfields redevelopment projects. Most notably, a list of select government agencies include Borough of Sayreville / Sayreville Economic Redevelopment Agency, Irvington Township, Bloomfield Township, County of Sussex, County of Middlesex, County of Mercer, Aberdeen Township, Evesham Township, Marlboro Township, Old Bridge Township, and Manalapan Township.
- CME Associates has over 30 years' experience in all aspects of Environmental Consulting & Engineering Services ranging from Phase I through implementation of remedial actions and post-remedial monitoring. CME uses an interdisciplinary, team-oriented approach to projects, employing individuals with education and experience in environmental engineering, chemistry, geology, hydrogeology, environmental permitting, GIS mapping, and community outreach.
- CME will attend all the required meetings. CME has sufficient staff available to attend meetings when required and will be providing services from our Monmouth Junction Office which is less than one (1) hour from the Borough offices.
- CME has the personnel, facilities, equipment, and additional capacity to provide a host of Environmental Engineering Services to the Borough on a timely basis.
- CME has highly qualified and experienced personnel with the necessary licenses and certifications to perform engineering services in the State of New Jersey.

A more detailed Scope of Services is provided in **Section 2**.



Attn: Andrew J. Casais, RMC, QPA
Qualified Purchasing Agent
Borough of Roselle Park

November 30, 2018
Page 3

Re: Proposal for 2019 Licensed Site Remediation Professional

LSRP PROGRAM AND RELEVANT EXPERIENCE

The enactment of the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. (**SRRA**) on May 7, 2009, introduced sweeping changes to the way in which sites are remediated in New Jersey. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals (LSRPs) who will have responsibility for oversight of environmental investigation and site remediation activities. CME Associates currently has **seven (7) LSRPs** to assume the responsibilities of the day-to-day management and oversight for environmental investigation and site remediation activities, as follows:

- | | |
|--|---|
| 1. Behram Turan, P.E., LSRP LSRP License #: 591482 | 5. Suresh Puppala, P.E., PhD., LSRP LSRP License #: 590707 |
| 2. Mohammad Zaman, Ph.D., P.E., LSRP LSRP License #: 575492 | 6. Eric Snee, LSRP LSRP License #: 668739 |
| 3. Manal Baba, LSRP LSRP License #: 585484 | 7. Jarrad Kantor, LSRP LSRP License #: 747658 |
| 4. James Sousa, PhD., LSRP LSRP License #: 586573 | |

All work will be conducted in accordance with Federal, State and local laws, including the applicable NJDEP regulations such as the Site Remediation Reform Act (**SRRA**), N.J.S.A. 58:10C-1 et. seq., Administrative Requirements for the Remediation of Contaminated Sites (**ARRCS**) Rules (N.J.A.C. 7:26C), Technical Requirements for Site Remediation (N.J.A.C. 7:26E), regulations pertaining to environmental assessment and investigations (N.J.A.C. 7:26D et. seq., N.J.A.C. 7:26C et. seq.), and Ground Water Quality Standards (N.J.A.C. 7:9-6 et. seq.).

References and additional relevant LSRP experiences are provided in **Section 4**.

PROJECT MANAGEMENT & PROJECT TEAM

Behram Turan, P.E., L.S.R.P., Principal and Director of Environmental Services will be the **assigned LSRP** and **main point-of-contact** for the client. Mr. Turan has over 25 years of experience in the fields of environmental engineering, including site remediation, brownfields redevelopment, management of dredged materials and beneficial reuse, solid and hazardous waste management, wetlands mitigation, surface water hydrology, hydrogeology, groundwater flow and contaminant mass transport and water resources planning. Mr. Turan is a Professional Engineer in the State of New Jersey, a Licensed Site Remediation Professional (LSRP) and a Certified Subsurface Evaluator (CSE). Mr. Turan has successfully completed a number of challenging site remediation projects leading to No Further Action Letter determinations from the NJDEP. Mr. Turan has issued a total of **forty (40) Response Action Outcomes (RAOs)** since the initiation of the LSRP Program.



Attn: Andrew J. Casais, RMC, QPA
Qualified Purchasing Agent
Borough of Roselle Park
Re: **Proposal for 2019 Licensed Site Remediation Professional**

November 30, 2018
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Mr. Turan will be assisted by a group of highly educated and experienced engineers, environmental scientists, geologists, hydrogeologists, and other technicians, as required. A list of key personnel, an organization chart, resumes and copies of professional certifications and licenses are provided in **Section 5**.

PROPOSED HOURLY RATE SCHEDULE

CME Associates will invoice the Borough on a time and material basis as well as other project related expenses in accordance with the hourly rate schedule included in **Section 6**. Expenses incurred for reproduction, postage handling, photographs and for services including sub-consultants, equipment and facilities not furnished by CME are charged to the Client at cost plus fifteen percent. Automobile travel may be charged at the current rate per mile allowed by the Internal Revenue Service.

Should you require additional information or should you have any questions concerning the enclosed proposal, please contact me at (732) 951-2101 to discuss them with you in more detail and provide clarification as necessary.

Very truly yours,
CME Associates

Behram Turan, P.E., LSRP
Principal

Enclosures

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- List of Phase I/PA Experience
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Section 6. CME Associates Hourly Rate Schedule

Section 1.

Forms



BOROUGH OF ROSELLE PARK


SUBMISSION CHECKLIST

| THE FOLLOWING ITEMS, AS INDICATED BELOW <input checked="" type="checkbox"/> , SHALL BE PROVIDED WITH THE RECEIPT OF SEALED SUBMISSIONS | | Initial Here |
|---|---|-----------------|
| <input checked="" type="checkbox"/> | Completed RFP Checklist | <u>BT</u> |
| <input checked="" type="checkbox"/> | Completed Submission Form / Qualification Statement | <u>BT</u> |
| <input checked="" type="checkbox"/> | Statement of Ownership Disclosure | <u>BT</u> |
| <input checked="" type="checkbox"/> | Non-Collusion Affidavit | <u>BT</u> |
| <input checked="" type="checkbox"/> | Required EEO/Affirmative Action Evidence & Signed Compliance Notice | <u>BT</u> |
| <input checked="" type="checkbox"/> | Acknowledgement of Americans with Disabilities Act Language of 1990 | <u>BT</u> |
| <input checked="" type="checkbox"/> | Disclosure of Investment Activities in Iran | <u>BT</u> |
| <input checked="" type="checkbox"/> | Insurance Requirement Acknowledgement Form | <u>BT</u> |
| <input checked="" type="checkbox"/> | Certification Regarding Political Contributions | <u>BT</u> |
| <input checked="" type="checkbox"/> | New Jersey Business Registration Certificate of Vendor | <u>BT</u> |
| <input checked="" type="checkbox"/> | W-9 of Vendor | <u>BT</u> |

This checklist is provided for vendor's use in assuring compliance with required documentation; however, it does not include all submission requirements and does not relieve the vendor of the need to read and comply with the RFP.

Name of Vendor: CME Associates

Date: 11/28/2018

Signature: X. 

Print Name: Behram Turan, P.E., LSRP

Title: Principal

BOROUGH OF ROSELLE PARK

SUBMISSION FORM/ QUALIFICATION STATEMENT

(ATTACH ADDITIONAL SHEETS AS NECESSARY,
BUT DO NOT SIMPLY ATTACH VENDOR MATERIALS
AND TYPE/WRITE: "SEE ATTACHED")

- 1. Names and roles of the individuals who will perform the services and description of their education and experience with projects similar to the services contained herein:**

Behram Turan, P.E., LSRP, Principal and Director of Environmental Engineering Services, will be the Project Manager and the assigned **LSRP**, for the Borough's projects. Mr. Turan has over 25 years of experience in the fields of environmental engineering, including LSRP Services, site remediation, brownfields redevelopment, management of dredged materials and beneficial reuse, solid and hazardous waste management, wetlands mitigation, surface water hydrology, hydrogeology, groundwater flow and contaminant mass transport, and water resources planning. Mr. Turan is a Professional Engineer in the state of New Jersey, a Licensed Site Remediation Professional (**LSRP**), and a Certified Subsurface Evaluator. Mr. Turan has successfully completed a number of challenging site remediation projects leading to No Further Action Letter determinations issued by the NJDEP. Mr. Turan, as LSRP, has issued a total of forty (40) Response Action Outcomes (**RAOs**).

Mr. Turan will be assisted by our staff consisting of educated and experienced environmental engineers, geologists, environmental scientists, and CAD technicians. A brief description of other key personnel who will be assisting to the assigned LSRP, Mr. Turan in this project is provided as follows:

- Mr. Mohammad Zaman, Ph.D., P.E., LSRP, has more than 20 years of professional experience in providing technical and regulatory compliance services. He has provided LSRP services and issued Remedial Action Outcome (RAO) to bring closure to contaminated site. Dr. Zaman is experienced in planning and developing remedial strategies; evaluating and implementing innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art wastewater and remediation/pollution control systems. He has extensive experience in soil and groundwater characterization, groundwater flow and contaminant fate & transport modeling, and the design and implementation of innovative soil and groundwater remediation technologies. He managed numerous remediation projects involving closure of underground storage tanks (UST), in-situ and ex-situ soil and groundwater remediation and mass soil excavation and off-site disposal.
- Mr. James Sousa, Ph.D, LSRP, is a Project Manager and Geologist with 16 years professional experience in environmental engineering and remediation in New Jersey. Dr. Sousa has worked on all phases of remedial projects, ranging from preliminary assessments and remedial investigations to implementation of remedial actions and post-remedial monitoring. Dr. Sousa is experienced in soil and groundwater investigations and remediation, ecological evaluations, and contaminant modeling, and is intimately familiar with New Jersey environmental regulations. He

SUBMISSION FORM/ QUALIFICATION STATEMENT
(CONTINUED)

(ATTACH ADDITIONAL SHEETS AS NECESSARY,
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has prepared successful HDSRF Grant applications and has managed several remedial investigations employing HDSRF Grants and EPA Brownfield Remediation Grants.

- **Suresh Puppala, PhD, PE, LSRP**, has over 15 years of experience in environmental engineering. His experience spans the gamut from academic research to consulting engineering services associated with characterization and remediation of impacted soil/groundwater. He has managed several projects whose assessed values ranged from a few thousand to multi-million dollars. His site remediation experience included implementation of several traditional and innovative in-situ remediation technologies at pilot scale (lab/field) and full scale (e.g., pneumatic fracturing, soil vapor extraction, enhanced natural attenuation, etc.).
- **Manal Baba, LSRP** has over 20 years of experience in environmental engineering applications, specializing in investigation and remediation of soil and groundwater contamination and project management. She has performed numerous site and remedial investigations; field pilot studies; hydrogeological fate and transport modeling analyses; design, implementation, and operation; and maintenance of remedial systems at various publicly and privately owned facilities in New Jersey.
- **Mr. Eric Snee, LSRP** is an environmental scientist with over seven years of experience in the environmental industry conducting investigations and remedial actions to reduce environmental liabilities in a cost effective, technically sound manner. Mr. Snee’s expertise includes preliminary environmental assessments, environmental investigations, remediation, regulatory knowledge, and environmental related construction projects. He also has extensive experience conducting soil, groundwater, surface water, and vapor intrusion investigations, receptor evaluations, and remedial projects at sites contaminated by petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.
- **Mr. Jarrad Kantor, LSRP** is an Environmental Scientist with over 10 years of professional experience in the field of site investigation and remediation. Mr. Kantor directed remedial investigations, actions, and managed numerous remedial field and evaluation activities including light non-aqueous phase liquid (LNAPL), prepared numerous NJDEP Preliminary Assessments and American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessments Reports.
- **Mr. Jose Bustamante** is a Senior Geologist with ample experience in soil and groundwater sampling for remediation and compliance monitoring projects. Mr. Bustamante conducted remediation projects including operation and maintenance of soil vapor extraction (SVE) system, sampling of quarterly groundwater monitoring wells, and conducted enhanced bioremediation treatment of contaminated soils.

The resumes of key personnel are included in **Section 5 – Assigned Staff Qualifications** describing education, experience with similar projects, certifications, and professional affiliations or memberships for the key personnel.

SUBMISSION FORM/ QUALIFICATION STATEMENT
(CONTINUED)

(ATTACH ADDITIONAL SHEETS AS NECESSARY,
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AND TYPE/WRITE: "SEE ATTACHED")

2. References and record of success of same or similar service:

Behram Turan, P.E., LSRP, will be the assigned LSRP for the Borough's projects. Mr. Turan has issued a total of forty (40) Response Action Outcomes (RAOs) since the initiation of the LSRP Program. CME Associates has been providing professional Environmental Engineering and LSRP services to municipalities and County agencies including large scale brownfields redevelopment projects. A list of select government agencies is provided below:

- | | |
|---|--------------------------------------|
| • <u>County of Mercer</u> | • <u>Aberdeen Township</u> |
| • <u>Irvington Township</u> | • <u>Evesham Township</u> |
| • <u>Bloomfield Township</u> | • <u>Marlboro Township</u> |
| • <u>County of Sussex</u> | • <u>Old Bridge Township</u> |
| • <u>County of Middlesex</u> | • <u>Manalapan Township</u> |
| • <u>Borough of Sayreville / Sayreville</u> | • <u>Borough of West Long Branch</u> |
| <u>Economic Redevelopment</u> | • <u>Milltown Township</u> |
| <u>Agency</u> | • <u>City of Plainfield</u> |

References:

CME Associates has provided LSRP services to the following entities:

1. **LSRP Services for Former South River Metals Brownfield Redevelopment Site**
Client: Township of Aberdeen
Contact: Holly Reycraft, Township Manager (732)583-4200 ext. 117
2. **LSRP Services for South River Firehouse Redevelopment Site**
Client: Borough of South River
Contact: Frederick Carr, Borough Administrator (732)451-3800
3. **LSRP Services for Hazlet Township Police Department**
Client: Township of Hazlet
Contact: Dennis Pino, Township Administrator (732)264-1700 ext. 8682
4. **LSRP Services for Princeton Meadow Golf Course**
Client: Middlesex County Improvement Authority
Contact: Paul Clark, COO (609)655-5141
5. **LSRP Services for Ten (10) Locations in Mercer County**
Client: County of Mercer
Contact: Raisa L. Walker, Director of Personnel, (609)989-6676

For additional references and success of similar service, see **Section 4 - Relevant LSRP Experience & References.** Inquiries related to CME Associates' reliability and past performance in the delivery of similar projects could be verified by the Borough.

SUBMISSION FORM/ QUALIFICATION STATEMENT

(ATTACH ADDITIONAL SHEETS AS NECESSARY,
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3. Description of ability to provide the services in a timely fashion (including staffing, familiarity and location of key staff):

CME Associates fully understands and recognizes the importance of providing Licensed Site Remediation Professional (LSRP) Services for the Borough in a cost-effective and timely manner. CME Associates has the staff, resources, experience and expertise necessary to successfully render the LSRP services in a cost-effective and timely manner in the interest of the Borough of Roselle Park. The resumes, as well as copies of licenses and certifications, of key personnel to be assigned to this project are included in Section 5 – Assigned Staff Qualifications. Environmental services related to this assignment will be provided from our Monmouth Junction Office, located less than one (1) hour from the Borough offices, at the following address:

CME Associates
3759 U.S. Hwy 1 South – Suite 100
Monmouth Junction, NJ 08852
Telephone: 732-951-2101
Contact Person: Behram Turan, P.E., LSRP. – Principal

4. Cost details, including the annual fee for primary duties and the hourly rates of each of the individuals who will perform services, and all expenses for any work that is not included in the primary duties:

CME Associates will invoice the Borough on a time and material basis in accordance with the hourly rate schedule as well as other project related expenses included in Section 6 - Hourly Rate Schedule. Specifically, the following hourly rate schedules will be used for the project key personnel:

| | |
|---|--------------|
| <u>Behram Turan, P.E., LSRP:</u> | <u>\$207</u> |
| <u>Mohammad Zaman, Ph.D., P.E., LSRP</u> | <u>\$192</u> |
| <u>James Sousa, PhD., LSRP:</u> | <u>\$186</u> |
| <u>Suresh Puppala, Ph.D., P.E., LSRP:</u> | <u>\$186</u> |
| <u>Manal Baba, LSRP</u> | <u>\$186</u> |
| <u>Salih Kokol, CSE:</u> | <u>\$165</u> |
| <u>Eric Snee, LSRP:</u> | <u>\$152</u> |
| <u>Jarrad Kantor, LSRP:</u> | <u>\$152</u> |
| <u>Jose Bustamante:</u> | <u>\$155</u> |
| <u>Peter Berkhout</u> | <u>\$146</u> |
| <u>Rand Pianin:</u> | <u>\$133</u> |
| <u>Jacquelyn Fagan:</u> | <u>\$133</u> |
| <u>Ashley Castillo:</u> | <u>\$133</u> |
| <u>Jordyn Styczynski:</u> | <u>\$122</u> |

SUBMISSION FORM/ QUALIFICATION STATEMENT

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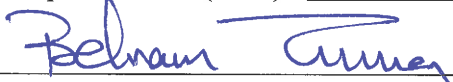
Expenses incurred for reproduction, postage handling, photographs and for services including sub-consultants, equipment and facilities not furnished by CME are charged to the Client at cost plus fifteen percent. Automobile travel may be charged at the current rate per mile allowed by the Internal Revenue Service.

CERTIFICATION OF PROPOSAL
(Sign Below)

Firm: CME Associates

Date: November 29, 2018

Authorized Representative (Print): Behram Turan, P.E., LSRP

Signature: 

Title: Principal

Telephone #: (732) 951-2101

Fax #: (732) 951-2106

BOROUGH OF ROSELLE PARK

STATEMENT OF OWNERSHIP DISCLOSURE

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

THIS STATEMENT SHALL BE COMPLETED, CERTIFIED TO, AND INCLUDED WITH ALL BID AND PROPOSAL SUBMISSIONS. FAILURE TO SUBMIT THE REQUIRED INFORMATION IS CAUSE FOR AUTOMATIC REJECTION OF THE BID OR PROPOSAL.

Name of Organization: CME Associates

Organization Address: 3141 Bordentown Ave., Parlin, NJ 08859

Part I

Check the box that represents the type of business organization:

- ☐ Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- ☐ Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- ☐ For-Profit Corporation (any type)
- ☐ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Limited Partnership
- ☒ Limited Liability Partnership (LLP)
- ☐ Other (be specific): _____

Part II

- ☒ The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST ON THE NEXT PAGE IN THIS SECTION)**

OR

- ☐ No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

STATEMENT OF OWNERSHIP DISCLOSURE

(Continued)

(Please attach additional sheets if more space is needed):

| Name of Individual or Business Entity | Home Address (for Individuals) or Business Address |
|---------------------------------------|--|
| David J. Samuel | 99 Winkler Road, Sayreville, NJ |
| Jay B. Cornell | 31 Tyska Ave., Sayreville, NJ |
| Michael J. McClelland | 82 Ida Lane, Brick, NJ |
| Gregory R. Valesi | 6 Ella Drive, Cream Ridge, NJ |
| | |

Part III

DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

| Website (URL) containing the last annual SEC (or foreign equivalent) filing | Page #'s |
|---|----------|
| | |
| | |
| | |

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above.** The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

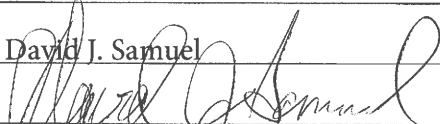
| Stockholder/Partner/Member and Corresponding Entity Listed in Part II | Home Address (for Individuals) or Business Address |
|---|--|
| | |
| | |
| | |

STATEMENT OF OWNERSHIP DISCLOSURE

(Continued)

Part IV
Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the Borough of Roselle Park is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with the Borough of Roselle Park to notify the Borough of Roselle Park in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the Borough of Roselle Park to declare any contract(s) resulting from this certification void and unenforceable.

| | | | |
|--------------------|---|--------|------------------|
| Full Name (Print): | David J. Samuel | Title: | Managing Partner |
| Signature: |  | Date: | 11/27/18 |

BOROUGH OF ROSELLE PARK

NON-COLLUSION AFFIDAVIT

State of New Jersey
County of Union

ss:

I, David J. Samuel of the City of Sayreville in
the County of Middlesex and State of New Jersey full age, being duly
sworn according to law on my oath depose and say that:

I am Managing Partner of the firm of CME Associates
(Title or Position) (Name of Firm)


the bidder making this Proposal for the above named project, and that I executed the said proposal with full
authority so to do; that said bidder has not, directly or indirectly entered into any agreement, participated in any
collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above
named project; and that all statements contained in said proposal and in this affidavit are true and correct, and
made with full knowledge that the Borough of Roselle Park relies upon the truth of the statements contained in
said proposal and in the statements contained in this affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure
such contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee,
except bona fide employees or bona fide employees or bona fide established commercial or selling agencies
maintained by CME Associates (name of contractor).

Subscribed and sworn to

before me this 27 day

of November, 2018.

X. 
Signature

David J. Samuel, Managing Partner
(Type or print name of affiant under signature)

Eileen T. Marino
Notary public of New Jersey

My Commission expires August 21, 2019

BOROUGH OF ROSELLE PARK

AFFIRMATIVE ACTION COMPLIANCE NOTICE

N.J.S.A. 10:5-31 and N.J.A.C. 17:27

**GOODS, PROFESSIONAL SERVICE
AND GENERAL SERVICE CONTRACTS**

This form is a summary of the successful bidder's requirement to comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17:27-1 et seq.

The successful bidder shall submit to the public agency, after notification of award but prior to execution of this contract, one of the following three documents as forms of evidence:

- a) A photocopy of a valid letter that the contractor is operating under an existing Federally approved or sanctioned affirmative action program (good for one year from the date of the letter);

OR

- b) A photocopy of a Certificate of Employee Information Report approval, issued in accordance with N.J.A.C. 17:27-4;

OR

- c) A photocopy of an Employee Information Report (Form AA302) provided by the Division and distributed to the public agency to be completed by the contractor in accordance with N.J.A.C. 17:27-4.

The successful vendor may obtain the Affirmative Action Employee Information Report (AA302) from the contracting unit during normal business hours.

The successful vendor(s) must submit the copies of the AA302 Report to the Division of Contract Compliance and Equal Employment Opportunity in Public Contracts (Division). The Public Agency copy is submitted to the public agency, and the vendor copy is retained by the vendor.

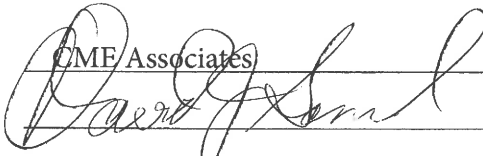
The undersigned vendor certifies that he/she is aware of the commitment to comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17:27.1 et seq. and agrees to furnish the required forms of evidence.

The undersigned vendor further understands that his/her bid shall be rejected as non-responsive if said contractor fails to comply with the requirements of N.J.S.A. 10:5-31 and N.J.A.C. 17:27-1 et seq.

COMPANY:

CME Associates

SIGNATURE:



PRINT NAME:

David J. Samuel

TITLE:

Managing Partner

DATE:

11/27/18

BOROUGH OF ROSELLE PARK

EXHIBIT A

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127)

N.J.A.C. 17:27

GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union of the contractor's commitments under this chapter and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to meet targeted Borough employment goals established in accordance with N.J.A.C. 17:27-5.2.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, and labor unions, that it does not discriminate on the basis of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personnel testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the targeted employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken

EXHIBIT A
MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L. 1975, C. 127)

N.J.A.C. 17:27

GOODS, PROFESSIONAL SERVICE AND GENERAL SERVICE CONTRACTS
(Continued)

without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents:

Letter of Federal Affirmative Action Plan Approval

Certificate of Employee Information Report

Employee Information Report Form AA302 (electronically provided by the Division and distributed to the public agency through the Division's website at ww.state.nj.us/treasury/contract_compliance).

The contractor and its subcontractors shall furnish such reports or other documents to the Division of Purchase & Property, CCAU, EEO Monitoring Program as may be requested by the office from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Purchase & Property, CCAU, EEO Monitoring Program for conducting a compliance investigation pursuant to Subchapter 10 of the Administrative Code at N.J.A.C. 17:27.



Certification 1818

CERTIFICATE OF EMPLOYEE INFORMATION REPORT
RENEWAL

This is to certify that the contractor listed below has submitted an Employee Information Report pursuant to N.J.A.C. 17:27-1.1 et. seq. and the State Treasurer has approved said report. This approval will remain in effect for the period of **15-FEB-2017** to **15-FEB-2020**

CME ASSOCIATES
1460 ROUTE 9, SOUTH
HOWELL

NJ 07731-1194



Ford M. Scudder

FORD M. SCUODER
State Treasurer

BOROUGH OF ROSELLE PARK

AMERICANS WITH DISABILITIES ACT OF 1990

Equal Opportunity for Individuals with Disability

The Contractor and the Owner, do hereby agree that the provisions of Title 11 of the Americans with Disabilities Act of 1990 (the "Act") (42 U.S.C. §12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant there unto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the Act. In the event that the contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the contractor shall defend the owner in any action or administrative proceeding commenced pursuant to this Act. The contractor shall indemnify, protect, and save harmless the owner, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages, of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the owner's grievance procedure, the contractor agrees to abide by any decision of the owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the owner, or if the owner incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

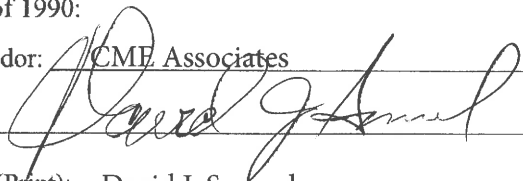
The owner shall, as soon as practicable after a claim has been made against it, give written notice thereof to the contractor along with full and complete particulars of the claim. If any action or administrative proceeding is brought against the owner or any of its agents, servants, and employees, the owner shall expeditiously forward or have forwarded to the contractor every demand, complaint, notice, summons, pleading, or other process received by the owner or its representatives.

It is expressly agreed and understood that any approval by the owner of the services provided by the contractor pursuant to this contract will not relieve the contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the owner pursuant to this paragraph.

It is further agreed and understood that the owner assumes no obligation to indemnify or save harmless the contractor, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the owner from taking any other actions available to it under any other provisions of the Agreement or otherwise at law.

The undersigned vendor consents to the full understanding of the forgoing Americans with Disabilities Act Language of 1990:

Bidder/Vendor: CME Associates

Signature: 

Full Name (Print): David J. Samuel

Title: Managing Partner

Date: 11/27/18

BOROUGH OF ROSELLE PARK

DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN

PART 1: CERTIFICATION

BIDDERS MUST COMPLETE PART 1 BY CHECKING EITHER BOX.

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person or entity, nor any of its parents, subsidiaries, or affiliates, is identified on the Department of Treasury's Chapter 25 list as a person or entity engaging in investment activities in Iran. The Chapter 25 list is found on the Division's website at <http://www.state.nj.us/treasury/purchase/pdf/Chapter25List.pdf>. Bidders must review this list prior to completing the below certification. Failure to complete the certification will render a bidder's proposal non-responsive.

PLEASE CHECK EITHER BOX:

☒ I certify, pursuant to Public Law 2012, c. 25, that neither the person/entity listed above nor any of the entity's parents, subsidiaries, or affiliates is listed on the N.J. Department of the Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). I further certify that I am the person listed above, or I am an officer or representative of the entity listed above and am authorized to make this certification on its behalf. I will skip Part 2 and sign and complete the Certification below.

OR

☐ I am unable to certify as above because I or the bidding entity and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2

PROVIDE FURTHER INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

You must provide a detailed, accurate and precise description of the activities of the bidding person/entity, or one of its parents, subsidiaries or affiliates, engaging in the investment activities in Iran outlined above by completing the form below. (PROVIDE INFORMATION RELATIVE TO THE ABOVE QUESTIONS. PLEASE PROVIDE THOROUGH ANSWERS TO EACH QUESTION. IF YOU NEED TO MAKE ADDITIONAL ENTRIES, USE ADDITIONAL PAGES).

Name: _____

Relationship to Bidder/Vendor: _____

Description of Activities: _____

Duration of Engagement: _____ Anticipated Cessation Date: _____

Bidder/Vendor: _____

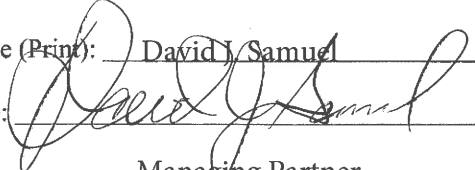
Contact Name: _____ Contact Phone Number: _____

DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN
(Continued)

CERTIFICATION

I, being duly sworn upon my oath, hereby represent and state that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I attest that I am authorized to execute this certification on behalf of the below-referenced person or entity. I acknowledge that the Borough of Roselle Park is relying on the information contained herein and thereby acknowledge that I am under a continuing obligation from the date of this certification through the completion of contracts with the Borough of Roselle Park to notify the Borough of Roselle Park in writing of any changes to the answers or information contained herein. I acknowledge that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I recognize that I am subject to criminal prosecution under the law and that it will also constitute a material breach of my agreements(s) with the Borough of Roselle Park and that the Borough of Roselle Park at its option may declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print): David J. Samuel

Signature: 

Title: Managing Partner

Date: 11/27/18

Bidder/Vendor: CME Associates

BOROUGH OF ROSELLE PARK

INSURANCE REQUIREMENTS AND ACKNOWLEDGEMENT FORM

Certificate(s) of Insurance shall be filed with the Borough Clerk's Office upon award of contract by the governing body

The minimum amount of insurance to be carried by the Professional Service Entity shall be as follows:

PROFESSIONAL LIABILITY INSURANCE

Limits shall be a minimum of \$1,000,000.00 for each claim and \$1,000,000.00 aggregate each policy period.

Acknowledgement of Insurance Requirement:

SIGNATURE: _____

DATE: _____

David J. Samuel, Managing Partner
(Printed Name & Title)

BOROUGH OF ROSELLE PARK

CERTIFICATION REGARDING POLITICAL CONTRIBUTIONS

STATE OF NEW JERSEY

: SS.

COUNTY OF Union

Union

I, David J. Samuel, _____ of the Borough of Sayreville in the County of Middlesex and the State of New Jersey, of _____ full age, being duly sworn according to law on my oath depose and say that:

I am the Managing Partner of the firm of CME Associates, the Professional Service Entity making the submissions for the above named Service, and that I executed the said submission with full authority to do so; that said Professional Service Entity acknowledges that it is aware that the Borough of Roselle Park pursuant to Section 2-4 of the Borough Code prohibits the awarding of any public contract to any Professional Service Entity that has contributed in excess of two hundred (\$200.00) dollars to a campaign committee of any Borough of Roselle Park candidate or holder of the public office having ultimate responsibility for the award of the contract, or to any Borough of Roselle Park or Union County Party Committee, or to any political action committee (PAC) that is organized for the primary purpose of promoting or supporting Borough of Roselle Park municipal candidates or municipal officeholders, within one (1) calendar year immediately preceding the date of the contract or agreement.

I further warrant that pursuant to Roselle Park Borough Section 2-4, a "professional service provider" seeking a public contract means: an individual, including the individual's spouse, if any, and any child living at home; person; firm; corporation; professional corporation; partnership; organization; or association. The definition of a service provider includes all principals who own one (1%) percent or more of the equity in the corporation or business trust, partners, and officers in the aggregate employed by the provider as well as any subsidiaries directly controlled by the service provider.

I further warrant that I have reviewed Borough Code Section 2-4.

I hereby certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment for contempt of Court.

Subscribed and sworn to before me
this 27 day of November, 2018

Eileen T. Marino
(Signature of Notary)

(Affix Seal)

EILEEN T. MARINO
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 8/21/2019

David J. Samuel
(Signature of Professional)
Name: David J. Samuel
Title: Managing Partner



| STATE OF NEW JERSEY BUSINESS REGISTRATION CERTIFICATE FOR STATE AGENCY AND CASINO SERVICE CONTRACTORS | | DEPARTMENT OF TREASURY DIVISION OF REVENUE PO BOX 280 TRENTON, NJ 08646-0280 |
|---|--|---|
| TAXPAYER NAME: | TRADE NAME: | |
| STEFANO, SAMUEL D, CORNELL, J, MCCLELLAN | CONSULTING AND MUNICIPAL ENGINEERS | |
| TAXPAYER IDENTIFICATION# | CONTRACTOR CERTIFICATION# | |
| 223-434-435/000 | 0015495 | |
| ADDRESS | ISSUANCE DATE: | |
| 1460 ROUTE 9 SOUTH HOWELL, NJ 07731 | 05/07/02 | |
| EFFECTIVE DATE: | <i>[Signature]</i> Deputy Director | |
| 01/01/97 | | |
| FORM-BRC(08-01) | This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address. | |

Request for Taxpayer Identification Number and Certification

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the
requester. Do not
send to the IRS.

| | | |
|--|--|---|
| Print or type. See Specific Instructions on page 3. | 1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. CONSULTING & MUNICIPAL ENGINEERS,LLP | |
| | 2 Business name/disregarded entity name, if different from above CME ASSOCIATES | |
| | 3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input checked="" type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► P Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ► | |
| | 4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small> | |
| | 5 Address (number, street, and apt. or suite no.) See instructions. 3141 BORDENTOWN AVENUE | Requester's name and address (optional) |
| | 6 City, state, and ZIP code PARLIN, NEW JERSEY 08859 | |
| | 7 List account number(s) here (optional) | |

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

| | | | | | | | | | | |
|--------------------------------|---|--|---|---|---|---|---|---|---|---|
| Social security number | | | | | | | | | | |
| | | | | - | | | | - | | |
| or | | | | | | | | | | |
| Employer identification number | | | | | | | | | | |
| 2 | 2 | | - | 3 | 4 | 8 | 4 | 4 | 3 | 5 |

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign
Here

Signature of
U.S. person ►

Joe Marchetti

Date ► *11/21/18*

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Certifies That

CME ASSOCIATES
3759 US HWY 1 S-STE 100
MONMOUTH JUNCTION, NJ 08852

*Having duly met the requirements of the
Underground Storage Tank Certification Program
N.J.S.A. 58:10A-24.1-8*

Is hereby approved to perform the following services:

| |
|--------------------------------|
| CLOSURE |
| INSTALLATION-ENTIRE UST SYSTEM |
| SUBSURFACE EVALUATION |
| TANK TESTING |

03/31/2019
EXPIRATION DATE

US00048
CERTIFICATION NUMBER

TO BE CONSPICUOUSLY DISPLAYED AT THE FACILITY

Section 2.

General Scope of Services





SCOPE OF SERVICES

Introduction

CME understands that the Borough of Roselle Park is seeking Proposals for the Position of **Licensed Site Remediation Professional (LSRP)** for the year 2019. Established in 1983, CME Associates has over 30 years' experience in all aspects of Environmental Consulting Services ranging from Phase I through implementation of remedial actions and post-remedial monitoring. CME uses an interdisciplinary, team-oriented approach to projects, employing individuals with education and experience in environmental engineering, chemistry, geology, hydrogeology, environmental permitting, GIS mapping, and community outreach.

CME Associates provides a complete range of Environmental Engineering and LSRP services, and has represented both the public and private sectors on a wide range of projects. Environmental consulting services provided include LSRP services, Phase I Preliminary Assessments, Site Investigations, and Remedial Investigations; Brownfield redevelopment; soil and groundwater investigation; regulatory compliance and environmental permit procurement; on-site monitoring of remediation activities including the removal, transport and disposal of ASTs/USTs; surface and groundwater monitoring; and landfill closures and redevelopment projects. Typically, the objectives of these studies are to identify potentially contaminated areas of concern, to determine if contaminants are present in identified areas of concern at concentrations that exceed any applicable remediation standards, to fully characterize the horizontal and vertical extent of site contamination, and to evaluate remedial alternatives. The NJDEP Technical Requirements for Site Remediation defines the reporting formats for Preliminary Assessments (N.J.A.C 7:26E-3.2), Site Investigation/Remedial Investigations (N.J.A.C 7:26E-3.13 and 4.8), Remedial Action Workplans (N.J.A.C 7:26E-6.2), and Remedial Action Reports (N.J.A.C 7:26E-6.7).

CME Associates has significant experience implementing soil and groundwater investigations including preparation of the following documents and implementing the following fieldwork:

- | | |
|---|---------------------------------------|
| ✓ Sampling Plan | ✓ Remedial Investigation Report |
| ✓ Field Sampling | ✓ Health and Safety Plan (HASP) |
| ✓ Installation of Soil Borings and Groundwater Monitoring Wells | ✓ Quality Assurance Plan |
| ✓ Ground Water Investigations | ✓ Remedial Action Workplan |
| ✓ Vapor Intrusion Investigations | ✓ Remedial Action Report |
| ✓ Site Investigation Report | ✓ Remedial Action Permits |
| ✓ Baseline Ecological Evaluation | ✓ Deed Notice |
| ✓ Wetlands Mitigation | ✓ Classification Exception Area (CEA) |
| | ✓ Response Action Outcome (RAO) |

CME Associates staff is licensed and certified by the State of New Jersey to provide the services as described and proposed herein. A description of specific projects demonstrating relevant LSRP experiences is included in Relevant Experience section. References are included in the proposal where inquiries related to CME Associates' reliability and past performance in the delivery of similar projects could be verified by the Client.



Project Management

Behram Turan, P.E., L.S.R.P., Principal and Director of Environmental Services, will be the Project Manager, the assigned LSRP, and main point of contact for the prospective client's projects. Mr. Turan, as assigned LSRP, will be responsible for direction, coordination and thorough knowledge of the day-to-day status of the work in progress. Mr. Turan has over 25 years of experience in the field of environmental engineering and site remediation program. Mr. Turan is a Certified LSRP in the State of New Jersey, and a Certified Subsurface Evaluator. Mr. Turan has successfully completed a number of challenging site remediation projects leading to No Further Action Letter determinations from the NJDEP. Mr. Turan has issued a total of thirty-nine (39) RAOs since the initiation of the LSRP Program.

LSRP Program

The enactment of the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. ("SRRA") on May 7, 2009 introduced sweeping changes to the way in which sites are remediated in New Jersey. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals ("LSRPs") who will have responsibility for oversight of environmental investigation and cleanup. CME Associates currently has **seven (7) permanent LSRPs** to assume the responsibilities of the day-to-day management and oversight for environmental investigation and site remediation activities, as follows:

- | | |
|--|--|
| 1. Behram Turan, P.E., LSRP LSRP License #: 591482 | 5. Manal Baba, LSRP LSRP License #: 585484 |
| 2. Mohammad Zaman, Ph.D., P.E., LSRP LSRP License #: 575492 | 6. Eric Snee, LSRP LSRP License #: 668739 |
| 3. James Sousa, PhD., LSRP LSRP License #: 586573 | 7. Jarrad Kantor, LSRP LSRP License #: 747658 |
| 4. Suresh Puppala, P.E., PhD., LSRP LSRP License #: 590707 | |

All work will be conducted in accordance with Federal, State, and local laws, including the applicable NJDEP regulations such as the Site Remediation Reform Act (SRRA), N.J.S.A. 58:10C-1 et seq., Administrative Requirements for the Remediation of Contaminated Sites (ARRCS) Rules (N.J.A.C. 7:26C), Technical Requirements for Site Remediation (N.J.A.C. 7:26E), regulations pertaining to environmental assessment and investigations (N.J.A.C. 7:26D et. seq., N.J.A.C. 7:26C et. seq.), and Ground Water Quality Standards (N.J.A.C. 7:9-6 et. seq.).

Sub-Consultants

If selected, CME Associates may engage the following potential sub-consultants to assist in providing Environmental Engineering Services as follows:

- **TestAmerica Laboratories, Inc.** - Laboratory Services
- **Subsurface Environmental Technologies, LLC (WBE)** - Drilling Services
- **Environmental Management Associates, Inc. (SBE)** - UST Removal & Remediation Services
- **Environmental Connection** - Asbestos & Lead Surveying Services, Indoor Air Quality (IAQ)



Funding and Grants Experience

CME Associates has been instrumental in providing guidance and professional services to municipalities and County agencies for large scale brownfields redevelopment and remediation projects that have included seeking and identifying grant opportunities, as well as preparing and submitting applications for grant funds. For example, CME Associates has assisted the following entities in obtaining grant funding:

- CME Associates has been providing environmental engineering services to Sayreville Economic and Redevelopment Agency (SERA) for redeveloping over 400 acres of waterfront land into a \$1.5 Billion phased project consisting of residential, retail, office space, hotels, entertainment and recreation in Sayreville, New Jersey. CME Associates assisted SERA in obtaining Brownfield Redevelopment Area HDSRF grants totaling approximately **\$20 million** for the next five years. The grant will be used for investigation and remediation of the conventional, radiological, and groundwater contamination at the site.
- CME Associates is currently working under an EPA Brownfields Development Program (BDP) grant for Middlesex County Improvement Authority (MCIA) Brownfields Assessment Coalition Grant Work funded by the US EPA for eight (8) Properties in the Route 1 Avenel Redevelopment Corridor of Woodbridge Township. CME has prepared Phase I ASTM ESA Reports/Preliminary Assessments, EPA Property Profile forms and Site Investigation Workplans for each site. The project is currently beginning the site investigation phase at some of the properties.
- Former South River Metal Products Brownfield Redevelopment Site, Aberdeen, New Jersey - Obtained HDSRF Grants over **\$750,000**, submitted for additional HDSRF grants for Remedial Action for **\$2.3 million** which were recently approved;
- Former Middlesex Bus Co. Site, East Brunswick, NJ - Obtained HDSRF Grants totaling **\$567,260**; and
- Former Red's Marina Site, Highland Park, New Jersey - Obtained HDSRF Grant totaling **\$239,754**.
- Environmental Center, Highland Park, New Jersey - Obtained HDSRF Grant totaling **\$40,665**.
- CME prepared and submitted a site-specific Brownfield Grant application to the EPA on behalf of the Township of Delran for **\$350,000** to be used for investigation and characterization of hazardous substances at the site.
- Borough of Dunellen - HDSRF Grant in the amount of **\$86,393**;
- South River Firehouse Redevelopment Site, Borough of South River, NJ - HDSRF Grant in the amount of **\$247,000**;
- CME Associates completed work under an EPA Brownfields Development Program (BDP) grant for Middlesex County Improvement Authority (MCIA) concerning the remediation of the Former Springfield Steel Drum Site Middlesex, NJ.
- Working under an EPA BDP grant, CME Associates also conducted Remedial Investigation activities for both the former dry cleaner site, and a former gas station and strip mall located in Plainfield, New Jersey.



Site Assessment and Remediation Services

CME is able to provide the following environmental engineering services to the client, if and when necessary:

❖ Remedial Project Approach

CME Associates will manage the project(s) in a manner that will save time and cost. CME Associates' streamlined project approach includes: i) In-depth review of previous site-specific documents; ii) Open and good communication lines between the CME Project Manager and the client's assigned point of contact; iii) Define project goals and open communications with entire project team; iv) Use of appropriate level personnel for assigned tasks; iv) Planning for field events to minimize mobilization. Projects may include several Areas of Concern (AOC) with varying degrees of complexity. CME Associates' general approach for each AOC would be methodical, as outlined below:

1. Identify any steps needed to bring the site into compliance with the ARRCs Rules, including annual reporting requirements, remedial action permit requirements, public notification requirements, and applicable mandatory and regulatory timeframes. For mandatory deadlines already missed, if any, CME Associates will negotiate with NJDEP to avoid Direct Oversight by NJDEP. It is uncertain at present how NJDEP plans to handle such cases.
2. Submit all required LSRP forms to NJDEP in accordance with the Administrative Requirements for the Remediation of Contaminated Sites (ARRCS) Rules (N.J.A.C. 7:26C), including the LSRP Notification of Retention or Dismissal.
3. Review all relevant documents for the site including previous reports, correspondence, data, notices of deficiency, or other documents to determine the current status of the investigation and/or remediation.
4. Determine the needs and goals of the client with respect to the site. Evaluate the need for an entire site vs. area of concern (AOC) Response Action Outcome (RAO). If site-wide RAO is required, additional Preliminary Assessment may be required.
5. Develop a site conceptual plan based on available data and identify any data gaps to determine if additional soil and/or groundwater investigation is necessary.
6. Identify conditions that trigger NJDEP reporting requirements (Vapor Intrusion, Immediate Environmental Concern, LNAPL, etc).
7. Prepare a Remedial Investigation Workplan and site-specific Health and Safety Plan (HASP) and Quality Assurance Project Plan (QAPP).
8. Prepare a final Remedial Investigation Report (RIR) and Remedial Action Workplan (RAW) in accordance with NJAC 7:26E. The RIR would provide full delineation of soil and groundwater and other media contaminated at the various AOCs and, if needed, will include the Classification Exception Area (CEA) for groundwater. The RAW would include recommendation of appropriate remedial actions (soil excavation, chemical injection, and natural attenuation); engineering controls (capping); and/or institutional controls (Deed Notice, Classification Exception Area). The RAW would lay out the remedial action schedule for each AOC.



9. To implement the remedial actions, CME would apply for the appropriate remedial action permit(s) and assist the client to implement remedial actions through contract bid documents, drawings, and construction oversight.
10. As AOCs are cleaned up, a Response Action Outcome (RAO) will be issued by the LSRP for the entire site or for areas of concern (AOCs) as required.

❖ **Preliminary Assessments / Phase I Environmental Assessment**

CME Associates will conduct Preliminary Assessments in compliance with the Technical Regulations, and in compliance with ASTM E1527-13; Standard Practice for Environmental Site Assessments; Phase I Environmental Site Assessment (ESA) Process, and the USEPA regulations for All Appropriate Inquiries. CME Associates will prepare PA/Phase I ESA Reports in general conformance with the following tasks:

- A site reconnaissance (property inspection) to identify indicators of the potential presence of hazardous materials or hazardous wastes on the property;
- Adjoining properties will be viewed to the extent possible in an effort to determine if any activities on those sites involve the use, storage, generation, or disposal of hazardous materials or hazardous wastes.
- A review of Federal, State, and local environmental records in accordance with ASTM Standard E 1527-13, where reasonably available after diligent inquiry;
- A review of any site remediation activities previously conducted by others.
- A review of site historical operations, including historical aerial photography, USGS topographic maps, Sanborn Fire Insurance Maps, and other sources where reasonably available after diligent inquiry;
- A review of reasonably available physical setting sources and information related to the occurrence and quality of groundwater in the site vicinity, where reasonably available after diligent inquiry;
- Attempt to interview the current landowner/operator/occupants with regard to site operations and environmental conditions on the site;
- A review of chain-of-title property owner information to identify previous owners/occupants of the properties in question;
- Evaluation of potentially contaminated areas of concern on the site; and
- Report preparation documenting the methods and findings of the assessment, including appropriate maps and plans as required; the report will present findings and recommendations with regard to additional investigation where required.



❖ Site Investigation/ Phase II Environmental Assessment

CME Associates will conduct a site Investigation if and when any potentially contaminated area of concern (AOC) is identified during a Preliminary Assessment in accordance with N.J.A.C. 7:26E-3.4 through 3.14, as applicable. The purpose of a site investigation is to determine if additional remediation is necessary because contaminants are present at the site or area of concern, or because contaminants have emanated or are emanating from the site or area of concern, above any applicable remediation standard or criterion.

CME Associates will conduct a site investigation of soil and/or groundwater by sampling the soil/groundwater in each potentially contaminated area of concern to determine if any contaminants are present above any applicable soil remediation standards and/or groundwater quality standards. CME Associates will compare all site data with all remediation standards and criteria and identify as contaminated areas of concern those areas where site data demonstrate that contaminant concentrations exceed any remediation standard or criterion. Based on the findings of the soil and/or groundwater investigation, CME Associates will make the appropriate recommendations as follows:

- If the concentration of any contaminant in the soil exceeds any soil remediation standard, then a remedial investigation of the soil pursuant to N.J.A.C. 7:26E-4.2. will be recommended.
- If the concentration of any contaminant in the ground water exceeds any ground water remediation standard, then a remedial investigation of the ground water pursuant to N.J.A.C. 7:26-4.3.

CME Associates will prepare a Site Investigation Report which will include the following:

- A presentation and discussion of all of the information identified or collected during the site investigation, pursuant to N.J.A.C. 7:26E-3.3 through 3.12;
- The general reporting requirements referenced in 7:26E-1.6;
- A presentation and discussion of all of the information identified or collected, pursuant to N.J.A.C. 7:26E-1.10 through 1.16;
- A description of each area of concern that was investigated, including its operational history;
- A technical overview that presents a general profile of the site investigation results, including a summary of the overall nature of contamination identified, including, without limitation, the numbers of areas of concern requiring further remediation;
- Findings and recommendations, including:
 - A discussion, by area of concern, of the specific findings of the site investigation analytical results, including:
 - A detailed description, including dimensions, results of all sampling data and suspected source of the contamination; and
 - Recommendations for either additional remediation or no further remediation



❖ Remedial Investigation

CME Associates will conduct a Remedial Investigation in accordance with N.J.A.C. 7:26E-4.1 if and when:

- The concentration of any contaminant exceeds any remediation standard;
- The concentration of any contaminant exceeds any aquatic surface water quality standard or ecological screening criterion.

The purpose of a remedial investigation is to:

- Delineate the horizontal and vertical extent of contamination to the remediation standard, in each environmental medium at a contaminated site;
- Delineate to the aquatic surface water quality standard and ecological screening criterion when contamination is observed in an environmentally sensitive natural resource, or in a contaminant migration pathway to an environmentally sensitive natural resource;
- Update the receptor evaluation, pursuant to N.J.A.C. 7:26E-1.12, and determine if an immediate environmental concern or vapor concern exists;
- Identify and characterize the migration pathways of contamination in air, soil, bedrock, sediment, ground water, surface water, structures and buildings at a contaminated site;
- Collect and evaluate all data necessary to evaluate the actual and potential ecological impacts of the contamination; and identify any natural resource injury; and,
- Identify the need for any interim remedial measures necessary to remove, contain, or stabilize a source of contamination to prevent contaminant migration and exposure to receptors, pursuant to N.J.A.C. 7:26E-1.10.

A Remedial Investigation Report will be prepared in accordance with NJAC 7:26E-4.9. The report will present all information related to the implementation of the remedial investigation, including the following:

- Available historical information related to characterization of the areas of concern.
- Sampling data and findings of previous investigations.
- A presentation and discussion of all of the information identified or collected, pursuant to N.J.A.C. 7:26E-1.10 through 1.16 and an updated receptor evaluation on a form.
- A description of each interim remedial measure implemented pursuant to N.J.A.C. 7:26E-1.10;
- Physical setting description based on site specific soil and groundwater information. If groundwater contamination is indicated, the results of a well search conducted in accordance with NJAC 7:26E-3.7(e)3 will be included.
- A technical overview that presents a general profile of the remedial investigation results, including a summary of the overall nature of contamination on the site.
- Findings and recommendations, which will include;



- A discussion, by area of concern, of the specific findings, including the remedial investigation analytical results;
- A discussion of the following items by area of concern:
 - A detailed description, including dimensions, contaminants and suspected source of the contamination; and
 - A determination whether remedial action is required for each area of concern;
- A proposed ground water classification exception area prepared pursuant to N.J.A.C.7:26C-7.3, for the area of the ground water contaminated by discharges at the site;
- The Remedial Investigation Report will contain analytical summary tables and sample location maps organized by area of concern. Soil boring logs, well records, and groundwater sampling information, and a groundwater elevation map will be included. Laboratory Electronic Data Deliverables and Laboratory reduced deliverable analytical reports will be attached to the report.

❖ **Remedial Action Workplan**

The purpose of a remedial action is to implement a remedy that removes, treats, or isolates contamination, and that is protective of the public health, safety and the environment. A remedial action will be implemented when:

- The concentration of any contaminant exceeds any applicable remediation standard;
- The concentration of any contaminant exceeds any aquatic surface water quality standard or any ecological screening criterion

Based on the recommendations of the Remedial Investigation Report, CME Associates will evaluate the available information and select a remedial action that will prevent further exposure of any receptor to any residual contamination. Site cleanup strategies will be evaluated in the context of the proposed redevelopment and site end use. CME Associates personnel have conducted remedial investigations and prepared remedial action workplans for contaminated sites ranging from single leaking underground storage tanks to unregulated landfills and abandoned industrial facilities. The remedial method selected for a particular site or area of concern will depend on many variables, including the subsurface characteristics of the site, the contaminants of concern, the extent and level of contamination in each media impacted, contaminant migration paths and receptors, and also the remediation goals and proposed site end-use. In our opinion, an environmental consultant must be flexible in the selection of a remedial approach. All site and project variables must be carefully considered to select a cleanup method that is technically feasible, consistent with the site end use, can be implemented within the redevelopment schedule, and is cost effective. In larger brownfield redevelopment projects with site-wide contamination, CME has successfully integrated engineering controls with the new site improvements to provide a technically appropriate and cost effective remediation. In smaller areas of concern, an active remediation such as excavation and removal or onsite treatment may be preferred. An active remediation may also be required for certain highly contaminated areas of concern or where sensitive receptors may be impacted.



Depending on the site conditions, CME may design an active remediation plan utilizing an alternative technology (e.g. chemical or bioremediation, soil vapor extraction, onsite thermal treatment, air stripping, etc.).

CME Associates will prepare a Remedial Action Workplan for each area of concern requiring a remedial action in accordance with N.J.A.C. 7:26E 7:26E-5.5 as follows:

- A summary of the findings and recommendations from the remedial investigation report prepared pursuant to N.J.A.C. 7:26E-4.9;
- A description of any interim remedial measures previously implemented;
- The identification of each area of concern where the remedial action will be implemented, including:
 - The horizontal and vertical extent of the area to be remediated correlated to the extent of contamination; and
 - The volume of the contamination to be treated or removed for each environmental medium;
- A detailed description of the remedial action and the remedial technology to be used for the area of concern, including the results of any bench scale, pilot test or design studies;
- Identification of all applicable remediation standards;
- A plan to evaluate the effectiveness of the remedial action;
- A perimeter air monitoring and action plan to be implemented during a remedial action, if applicable, designed to monitor and control off-site excursion of dust, vapor and odors;
- A list of all required permits;
- A fill use plan that complies with N.J.A.C. 7:26E-5.2, if applicable;
- A plan to restore the site after implementing the remedial action, if applicable; and
- The proposed completion date of the remedial action and a schedule of the remedial action for the initiation and completion of each remedial action task, pursuant to the required regulatory timeframe at N.J.A.C. 7:26E-5.8.

❖ **Remedial Action Report**

Upon completion of the Remedial Action activities, CME Associates will prepare a Remedial Action Report in accordance with N.J.A.C. 7:26E-5.7. The report will include the following information:

- The general reporting requirements in N.J.A.C. 7:26E-1.6;
- A presentation and discussion of all of the information identified or collected, pursuant to N.J.A.C. 7:26E-1.10 through 1.16 and an updated receptor evaluation on a form;
- A summary of the findings and recommendations for each area of concern from the remedial investigation report prepared pursuant to N.J.A.C. 7:26E-4.9;
- A description, by area of concern, of each remedial action implemented;



- A list, by remedial action, of the remediation standards that apply to each remedial action;
- Documentation, by area of concern, that each remedial action is effective in protecting the public health and safety and the environment by:
 - Providing an overview of the data to establish the remedial action is operating as designed; or
 - Demonstrating compliance with the applicable remediation standards;
- A remedial action permit application prepared pursuant to N.J.A.C. 7:26C-7, if applicable;
- "As-built" diagrams for any permanent structures associated with the remedial action including, without limitation, caps or other structures associated with the remedial action and engineering controls, if applicable;
- A detailed description of site restoration activities, if applicable;
- The total remediation costs through the implementation of the remedial action;
- Documentation of all types and quantities of waste generated by the remedial action, including copies of fully executed manifests or bill(s) of lading documenting any off-site transport of waste;
- Documentation of the source, type, quantities, and location of each alternative fill and clean fill used as part of the remedial action at the site; and
- A description of each permit required and obtained to implement the remedial action.



Hazardous Materials Assessment and Management Services

❖ Asbestos Assessment

Upon notification, CME Team can proceed to initiate a work site assessment for the purposes of identifying, quantifying and assessing asbestos containing materials allowing for the subsequent design of pre-renovation remediation, if needed. CME Team intends to utilize Asbestos Hazard Emergency Response Act (AHERA) sampling protocols, National Institute of Occupational Safety and Health (NIOSH) sampling methods, Public Employees Occupational Safety and Health (PEOSH) adopted referenced standards, New Jersey Department of Health and Senior Services (NJDHSS) New Jersey Administrative Code, (NJAC) 8:60, and Department of Labor and Workforce Development (NJDOLWD), NJAC 12:120, regulations and other recognized industrial hygiene procedures and applicable standards to govern the assessment activities.

CME Team's survey/assessment(s) will identify and quantify suspect asbestos containing materials (ACMs) on a room-by-room and material-by-material basis for the area of impact. EC shall collect samples to refute or verify the presence of ACM. CME Team intends to utilize United States Environmental Protection Agency (USEPA), Asbestos Hazard Emergency Response Act (AHERA)/Asbestos School Hazard Abatement Re-authorization Act (ASHARA), 40 CFR, Part 763, sampling protocols.

❖ Lead Based Paint

CME Team will employ the services of one (1) of its State of New Jersey, Department of Health and Senior Services, (DHSS) licensed Lead Inspector/Risk Assessors to perform lead based paint inspections. Inspection and the subsequent reports shall indicate the location and result of each X-Ray Fluorescence (XRF) reading and shall include a summary of total tests taken for each component. A summary of the positive, negative and inconclusive readings will be provided. The lead based paint section of the reports will also include an executive summary, project findings, lead-based paint locations and Certificates of Analysis.



Environmental Permitting & Regulatory Compliance Services

CME Associates takes great pride in providing quality environmental permitting and related professional services for its clients. CME Associates performs all environmental reports and studies to obtain permits, approvals and or certifications from Federal, State and County agencies including the US Army Corps of Engineers, the NJDEP, the NJ Pinelands Commission and the OC Soil Conservation District by performing both field work and addressing regulatory compliance to satisfy the requirements of the following statutes as well as their associated rules (N.J.A.C.). Permits CME can assist the client with include, but are not limited to, the following:

- | | |
|--|---------------|
| • CAFRA | NJSA 13:19-1 |
| • Freshwater Wetlands | NJSA 13:9B-1 |
| • 1970 Coastal Wetlands | NJSA 13:9A-1 |
| • Waterfront Development | NJSA 12:5-3 |
| • Stream Encroachment/ Flood Hazard Area | NJSA 58:16A |
| • Tidelands | NJSA 12:3 |
| • Dam Safety | NJSA 58:4 |
| • Pinelands | NJSA 13:18A-1 |
| • SCD | NJSA 4:29-39 |
| • Green Acres | NJSA 13:8 |

The following is a brief description of each permit:

- Coastal Area Facility Review Act (CAFRA) Permit - A CAFRA Permit is needed for certain types of residential, commercial, industrial, and public developments within the coastal area described in the Act. DEP's interactive mapping system (I-mapNJ) can be used to determine if the property is in the CAFRA Area.
- Freshwater Wetlands - The Freshwater Wetlands Protection Act seeks to protect freshwater wetlands. State open waters and upland areas up to 150 feet from wetlands serve as buffers from random, unnecessary or undesirable alteration or disturbance. Letter of Interpretation (LOI) is generally required for verifying the limit of freshwater wetlands and their resource value classification on any size property. Projects may require the following wetlands permits:
 - Statewide General Permit - A Statewide General Permit allows limited types of activities to be performed in freshwater wetlands and State Open Waters, provided specific permit conditions are met.
 - Freshwater Wetlands Individual Permit - A Freshwater Wetlands Individual Permit is needed when activities proposed do not fall within any General Permit category or the activities encompass more than one acre of fill.
 - Transition Area Waivers - A transition area waiver or buffer is required adjacent to freshwater wetlands of exceptional or intermediate resource value.
- Coastal Wetlands Permit - A Coastal Wetlands Permit is needed to excavate dredge, fill or erect structures on coastal wetlands as delineated in maps promulgated by the Department pursuant to the Wetlands Act of 1970.



- Waterfront Development Permit - A Waterfront Development Permit is needed for developments proposed within any tidal waterway of the State and lands lying thereunder up to and including the mean high waterline. Examples of projects that need a waterfront development permit include docks, wharfs, piers, bulkheads, bridges, pipelines, cables, pilings, filling, dredging or removing of sand or other materials.
- Stream Encroachment Permit - A Stream Encroachment permit is needed for dredging or the construction, installation or alteration of any structure or permanent fill along, in, or across the stream channel or 100-year flood plain of any stream.
- Tidelands Instruments - Tidelands, also known as riparian lands, are all those lands now, or formerly, flowed by the mean high tide of a natural waterway. These lands are State owned or State claimed to be owned. Activities on State owned tidelands require a tidelands grant, lease or license. Activities at or below mean high water may require a waterfront development permit.
- The Dam Safety Program - This program regulates the construction and maintenance of dams in order to ensure their safety, and it is applicable for projects involving the construction, repair or modification of a dam which impounds water on a permanent or temporary basis and that raises the water of a river or stream more than five feet.
- Pinelands Commission - The Pinelands Commission an independent State agency, is responsible for implementing and administering land development regulations contained in the Pinelands Comprehensive Management Plan for the Pinelands Area which covers portions of seven southern New Jersey counties: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Ocean.
- Soil Conservation District - A Soil Erosion and Sediment Control Plans and details are needed to be prepared and submitted to the applicable County Soil Conservation District for projects disturbing more than 5,000 square feet.
- Green Acres Program - The Green Acres Program assists local governments and nonprofits in acquiring funding to acquire or develop land for recreation and conservation. As part of the Green Acres application process, a Preliminary Assessment (PA) must be performed to identify any potentially contaminated areas of concern at the subject property. CME performs PAs and prepares all reports in compliance with Green Acres requirements.



Quality Assurance/Quality Control Services

CME Associates has developed a Quality Control and Quality Assurance Plan (QCQAP), which establishes the necessary Quality Assurance (QA) and Quality Control (QC) procedures for the site/remedial investigation activities to be implemented at various projects. Specifically, CME Associates prepared the QCQAP in accordance with the EPA Quality Assurance Guidance for Conducting Brownfields Site Assessments (EPA 540-R-98-038; September 1998), and the NJDEP QA & QC requirements. Project specific QCQAP's will be submitted to EPA and NJDEP, and site/remedial investigation activities will be performed accordingly.

CME Associates is committed to quality management on all work conducted in-house and by subcontractors. Mr. James Sousa, PhD, LSRP, will serve as the Quality Control and Quality Assurance Manager for the client. Mr. Sousa's resume is attached herein. CME Associates will review the laboratory analytical data qualitatively to ensure that the results are valid. In addition, CME Associates is qualified to conduct immediate-analysis environmental measurements under the NJDEP Laboratory Certification ID# 12032. Furthermore, professional staff members receive ongoing training in OSHA standards and procedures and are licensed in accordance with the State of New Jersey Professional Board, where applicable.

Whenever samples are taken as part of an assessment, CME Associates will prepare a site specific Quality Assurance/Quality Control Plan for the site in compliance with 40 CFR Part 31.45. Fieldwork will not be conducted until the QA/QC Plan is approved in writing by the NJDEP. A key component of site investigation (Phase II) and remedial investigation (Phase II) workplans is a Quality Assurance and Quality Control Plan for sample collection. This is a site specific plan prepared in accordance with 40 CFR 31.45 that defines the quality assurance practices to be implemented in the field sampling program, including policies, procedures, specifications, standards, and documentation. The purpose of the QA/QC measures is to meet the data quality objectives of the project and to minimize the potential for loss of data. A Quality Assurance Project Plan (QAPP) is prepared in accordance with the USEPA Region 2 Brownfields Project Planning Guidance. For projects in New Jersey, a QAPP is also prepared to comply with NJAC 7:26E-2.2. For projects with EPA oversight, the QAPP is submitted to the EPA for approval prior to implementing a field sampling program.

Section 3.

CME Associates’

Qualifications



General Information about CME Associates



GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM

CME Associates is a multi-disciplined consulting engineering firm dedicated to providing a high quality of professional services in a cost-effective and timely manner. We endeavor to develop and maintain long term, responsive and personal business relationships with our clients and to address their needs in a positive and successful manner. Through our commitment to the principles of integrity and quality, we utilize practical and innovative problem solving techniques to ensure that our clients' problems are resolved cost-effectively through technically sound, scientifically-based methods in an environmentally conscious and responsive manner.

The qualifications and experience of its personnel are CME Associates' greatest assets. The firm has made a conscious effort to attract, develop and retain the highest quality professionals chosen for their demonstrated capabilities, field experience, energy, commitment to excellence and ability to accept increasing levels of responsibility. Our staff includes civil engineers, site engineers, environmental engineers and scientists, LSRPs, planners, hydraulic engineers, surveyors, geologists, geotechnical engineers, hydrogeologists, wetlands technicians, GIS specialists, landscape architects, and office and field support staff experienced in all disciplines necessary to successfully complete our client's projects.

CME Associates' approach to properly addressing a client's requirements is based on: maintaining sensitivity to social and legal issues; a comprehensive understanding of regulatory and permitting requirements; an awareness of established and developing technologies; and an appreciation of economic constraints.

The key to efficient project resolution and regulatory and permitting compliance is a thorough understanding of both the letter and spirit of the regulations, and the manner in which they are enforced. We have developed positions of mutual respect and sound working

relationships with various bureaus of the New Jersey Departments of Environmental Protection (NJDEP), Transportation, Community Affairs and other regulatory agencies. These working relationships enhance our ability to respond to our clients' needs as the environment, and the associated regulations pertaining thereto, grow increasingly complex.

CME Associates has developed collaborative and mutually respectful working relationship with the NJDEP personnel in various programs, and has a demonstrated track record in meeting the requirements of several NJDEP programs simultaneously and obtaining NJDEP's concurrence on potentially contentious issues to meet our client's schedule expeditiously.

CME Associates takes great pride in providing quality engineering and remediation oversight services for its clients. Our engineering and site remediation professionals work in a team environment to complete the designated tasks in a timely manner and with quality, positive results for the enhancement of the community.

CME Associates provides Engineering and Site Remediation services for a complete range of projects including: Licensed Site Remediation Professional (LSRP) services, Due Diligence Services, site investigation and remediation, brownfields redevelopment, solid and hazardous waste management, underground storage tank remediation, landfill closure and redevelopment, and implementation of remedial actions. We have been actively involved in the preparation and implementation of numerous remedial plans for industrial and commercial facilities, brownfields, landfills, Superfund sites, and UST sites. The following provides for a brief overview of site remediation and regulatory permitting programs:

[Licensed Site Remediation Professional \(LSRP\) Services](#)

The enactment of the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq. ("SRRA") on May 7,



GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM

2009 introduced sweeping changes to the way in which sites are remediated in New Jersey. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals (“LSRPs”) who will have responsibility for oversight of environmental investigation and cleanup. CME Associates is well positioned to assume the responsibilities of the day-to-day management and oversight for environmental investigation and cleanup through qualified LSRPs.

Behram Turan, P.E., L.S.R.P., Principal and Director of Environmental Services, will be the Project Manager, the assigned LSRP, and main point of contact for this project. Mr. Turan has over 25 years of experience in the field of environmental engineering and site remediation program. Mr. Turan is a Certified LSRP in the State of New Jersey, and a NJDEP Certified Subsurface Evaluator. Mr. Turan has successfully completed a number of challenging site remediation projects leading to No Further Action Letter determinations from the NJDEP. Mr. Turan also issued a total of thirty-nine (39) RAOs since the initiation of the LSRP Program. Mr. Turan is currently involved in more than seventy (70) site remediation projects under the LSRP Program.

Landfill Engineering Solid Waste Management

CME Associates has implemented a number of projects related to the landfill engineering and solid waste management. CME Associates has specialized expertise in landfill operations, closure, post-closure care and monitoring, and extensive experience in working with the NJDEP, USEPA and ACOE on permitting, compliance, and other regulatory concerns. CME Associates has evaluated the environmental and geotechnical characteristics of landfill cover material for several large landfill closure projects in New Jersey. CME Associates has successfully prepared recycling services for public authorities, landfill closure and post-closure services, ground water monitoring reports, air emissions statements, and conducted landfill gas sampling at various landfills in New Jersey including the Monmouth County

Reclamation Center Landfills, Former Overpeck Landfill, former Bayonne municipal landfill, former ILR landfill in Edison, and former City of Linden Sanitary Landfill, Legler Landfill in Jackson Township, Plainsboro Landfill in Plainsboro. CME Associates has substantial experience in landfill engineering and solid waste management, including landfill engineering and permitting, evaluation of waste reduction, recycling, and collection, development and implementation of landfill closure and redevelopment plans, preparation of landfill disruption permit applications, preparation of landfill closure and post-closure permit applications, preparation of landfill closure and post-closure financial plans, design and monitoring of landfill leachate and groundwater management systems, landfill gas control and gas-to-energy system designs, underslab gas ventilation system designs, and Preparation of the NJDEP Subchapter 8 and Title V air permits for landfill gas collection system and negotiating the conditions of the Title V air permit with USEPA and NJDEP. In Addition, CME Associates provides assistance to its clients for the compliance and monitoring for Title V permits.

Due Diligence Services

In order to avoid potential professional conflicts with respect to notification obligations as well as any problems such notification may cause certain projects, CME Associates will offer independent consulting services for due diligence track related to the environmental site assessment, investigation, and site remediation.

Consulting services related to environmental due diligence for property acquisition and similar projects will be conducted by qualified environmental personnel who are not LSRPs. ARRCs rules do not apply to any person who is conducting due diligence in accordance with N.J.S.A. 58:10C-30d(2). Due diligence work will be performed in accordance with accepted industry and ASTM standards for Phase I and Phase II environmental site assessments. The typical objective of these assessments is to inform a prospective land purchaser of the property

GENERAL INFORMATION ABOUT CME ASSOCIATES

ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM



conditions with respect to known or suspected contamination based on diligent inquiry and/or investigation. In order to avoid conflict with notification requirements, LSRPs will have no involvement in due diligence cases. Additional services related to land assessment such as land surveys, green acre surveys, lot yield analyses, asbestos surveys, and wetland evaluations will also be provided along the due diligence track without LSRP involvement.

Site Investigation and Remedial Actions

CME Associates' environmental professionals include engineers and scientists with extensive experience working with the NJDEP Site Remediation Program to successfully close remediation cases. We provide in house consulting services ranging from field investigations to preparation of Remedial Action Workplans, contract specifications, bid documents, and providing remediation oversight. CME Associates has a long tradition of working with county, municipal, and other public entity clients.

CME Associates ensures that investigations of soil and groundwater contamination are conducted in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E). CME Associates tailors the actual work performed for a project to the site specific conditions and any specific conditions imposed by regulatory oversight. CME Associates has significant experience implementing soil and groundwater investigations including preparation of the following documents and implementing the following fieldwork:

- Sampling Plan
- Field Sampling
- Installation of Soil Borings and Groundwater Monitoring Wells
- Ground Water Investigations
- Vapor Intrusion Investigations
- Site Investigation Report
- Baseline Ecological Evaluation
- Remedial Investigation Report
- Health and Safety Plan (HASP)
- Quality Assurance Plan
- Remedial Action Workplan
- Remedial Action Report
- Deed Notice
- Classification Exception Area (CEA)
- Issuance of Response Action Outcome (RAO).

CME Associates has the in-house capabilities to prepare the remediation design documents and construction bid documents for the proposed remedial action. Our firm prepares specifications and bid documents for site preparation, soil erosion and sediment control, remedial implementation, handling and management of contaminated soil and water, and site restoration. Our firm provides detailed engineering cost estimates so that clients can effectively anticipate the financial requirements of a project and evaluate contractor proposals.

Underground Storage Tank Program

CME Associates has significant experience in assisting clients with maintaining compliance with the Underground Storage Tank regulations (NJAC 7:14B). CME Associates provides a comprehensive review of underground storage tank (UST) facilities operated by the client. CME Associates has knowledge in contacting facility operators, the NJDEP Bureau of Underground Storage Tanks (BUST), and the NJDEP Site Remediation Program. Our team has the knowledge to review the necessary databases and State records in accordance with the Open Public Records Act (OPRA). Our firm has years of experience in reviewing the regulatory status of each UST facility pursuant to the Underground Storage Tank regulations (NJAC 7:14B) and the Technical Requirements for Site Remediation (NJAC 7:26E).

CME Associates has many years of experience in outlining the regulatory status of each UST facility to identify the tasks required to bring a facility into regulatory compliance, and prioritize the required response actions.

Our LSRPs prepare initial registrations for any unregistered tanks and amend registration information for any modified UST systems. Our engineers and scientists prepare UST Closure Reports, and perform biennial deed notice and

GENERAL INFORMATION ABOUT CME ASSOCIATES ENVIRONMENTAL ENGINEERING AND LSRP PROGRAM



groundwater CEA reporting requirements for previously remediated sites.

Regulatory Permitting

CME Associates' engineers, environmental scientists, and wetland specialists are experienced in conducting and successfully completing Site Remediation and Land Use permitting tasks. CME Associates staff is knowledgeable in identifying proposed activities for a particular investigation or remediation project, and compiling a list of required permits and approvals. Depending on the particular project, this may include but not necessarily be limited to the following: • Remedial document approvals (Remedial Investigation Workplan, Remedial Investigation Report, Remedial Action Workplan, Remedial Action Report) • Issuance of a RAO • Soil Erosion and Sediment Control Plan certification • NJPDES Discharge to Surface Water/Groundwater permits • Air permits for remedial systems • NJDEP Land Use Regulation permits (Freshwater Wetlands permits, Flood Hazard Area permits, Waterfront Development Permit) • Army Corps of Engineers permits • Landfill Closure and Post-Closure Plans and landfill disruption permits. CME Associates identifies anticipated permitting requirements for each proposed remediation projects.

CME Associates presently has a total staff of 150 people in its five (5) offices in New Jersey (Parlin, Howell, Monmouth Junction, Pleasantville, and Marlton).

Engineering Services

The following is a list of the types of Engineering Services provided by CME Associates.

CIVIL

- Road Rehabilitation and Construction
- Utility Engineering
- Hydraulic and Sanitary Engineering
- Transportation Studies
- Traffic Engineering
- Structural Engineering
- Storm Drainage Facilities
- Stormwater Management
- Surveying

MASTER PLANNING

- Community Development and Redevelopment
- Recreational Facilities
- Planning Board and Board of Adjustment Services

WATER AND WASTEWATER

- Water and Wastewater Treatment Plants
- Cogeneration Facilities
- Water Supply, Distribution and Storage Facilities
- Pumping Stations
- Wastewater Collection and Transmission Facilities
- Water & Wastewater Master Plans & Feasibility Studies
- Public/Private Partnership Development

ENVIRONMENTAL

- Brownfield Redevelopment
- Environmental Site Assessment and Site Investigation
- Regulatory Compliance
- Solid Waste Management
- Landfill Gas-Energy Projects
- Air Quality
- Water Resources Engineering
- Environmental Modeling
- Construction Management
- Wetlands
- Solar and Cogeneration Energy Projects

PARKS AND RECREATION

- Synthetic Turf Fields
- Pocket Parks to Regional Facilities
- Swimming Pool Facilities
- Recreational Feasibility Studies
- Skating Facilities
- Facilities for Physically Disabled
- Tennis Centers
- Site Planning
- Track & Field facilities Design
- Athletic Field Lighting

TRANSPORTATION

- Roadway / Highway Design
- Roadway / Highway Reconstruction / Rehabilitation
- Roadway / Highway Mill & Overlay
- Micro-Paving
- Streetscapes
- Pedestrian Crosswalks
- Feasibility Studies
- Bridge Inspection
- Roadway Lighting
- Traffic Impact Studies Review
- Conceptual Intersection Design
- Traffic Impact Study Preparation
- Intersection Signalization

GEOTECHNICAL

- Site Feasibility Studies
- Subsurface Explorations
- Foundation Design for Wind Turbines
- Slope Stability and Settlement Analysis
- Sheet Pile Designs
- Bulkhead Designs
- Installation of Shallow and Deep Foundations
- Control of Embankment Placement
- Retaining Wall Designs

CONSTRUCTION PHASE SERVICES

- On Site Observation of Developments
- Capital Improvement Construction Services
- Value Engineering
- Feasibility Studies and Project Permitting

MUNICIPAL FORESTRY

- Attain Tree City USA Status
- Community Forestry Management Plans
- Grant Applications for Tree Maintenance / Planting
- Hazardous Tree Survey
- Identification Studies
- Tree Removal / Preservation Ordinances
- Preservation of Trees During Construction

REDEVELOPMENT

- Site Investigation
- NJDEP Brownfields Applications & Grant Remediation
- Funding - Public/Private
- Redevelopment Agreements
- Site Identification and Development
- Infill Redevelopment Planning

Our firm presently provides Municipal Engineering Services for the following Municipalities:

- Township of Aberdeen
- Township of Berkeley
- Borough of Bradley Beach
- Borough of Carteret
- Township of Delran
- Borough of Dunellen
- Township of East Brunswick
- Borough of East Newark
- Township of Evesham
- Township of Franklin
- Township of Freehold
- Township of Hazlet
- Township of Hamilton
- Borough of Highland Park
- Township of Howell
- Borough of Keyport
- Township of Manalapan
- Township of Marlboro
- Borough of Milltown
- Town of Morristown
- City of New Brunswick
- Township of North Brunswick
- Township of Old Bridge
- Township of Plainsboro
- City of Pleasantville
- Borough of Sayreville
- Township of South Brunswick
- Borough of South River
- Borough of Spotswood
- Township of Stafford
- Township of Wall
- Township of Westampton
- Township of Voorhees
- Township of Winslow

We are also the Consulting Engineer for the following Authorities:

- Franklin Township Sewerage Authority
- Western Monmouth Utilities Authority
- Township of Berkeley Municipal Utility Authority
- Township of Old Bridge Municipal Utility Authority
- Union County Utilities Authority
- Joint Meeting of Essex and Union Counties
- Township of Ocean Sewerage Authority
- South Monmouth Regional Sewerage Authority
- Middlesex County Improvement Authority
- Gloucester County Utilities Authority

ENGINEERING SERVICES



Our Five (5) Offices in New Jersey have a total personnel of 178 people as follows:

| | | | |
|--------------------------|----|---------------------------|----|
| Administrative | 37 | Civil Engineers | 30 |
| Construction Engineers | 21 | Electrical Engineers | 2 |
| Estimators | 2 | Geologists | 1 |
| Landscape Architects | 4 | Mechanical Engineers | 3 |
| Planners: Urban/Regional | 2 | Sanitary Engineers | 9 |
| Geotechnical Engineers | 2 | Specification Writers | 3 |
| Structural Engineers | 5 | Surveyors | 8 |
| Transportation Engineers | 5 | Environmental Specialists | 14 |
| Hydraulic Engineers | 4 | GIS Experts | 2 |
| Engineering Technicians | 14 | CAD Technicians | 7 |
| Bridge Inspectors | 3 | | |

TOTAL: 178

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Environmental Services

CME Associates provides a complete range of Environmental Engineering services and has represented both the public and private sectors on a wide range of projects. Environmental consulting services provided include Phase I Preliminary Assessments, Site Investigations, Remedial Investigations, Remedial Actions, Brownfield redevelopment, soil and groundwater investigation, regulatory compliance and environmental permit procurement, on-site monitoring of remediation activities, compliance with the Underground Storage Tank regulations, surface and groundwater management, and solid and hazardous waste management including landfill closure and redevelopment projects.

CME Associates has a highly qualified team of environmental engineers and scientists who are licensed as Professional Engineers, Certified NJDEP Cleanup Stars, Certified UST Closure/ Subsurface Evaluators, and/or N-License Industrial Wastewater Operators. Furthermore, professional staff members receive ongoing training in OSHA standards. The process of site remediation in New Jersey is in a transition period with the adoption of the Site Remediation Reform Act ("SRRA"), N.J.S.A. 58:10C-1 et seq. signed on May 7, 2009, by Governor Jon Corzine into law. The Governor also signed Executive Order #140, implementing the new law. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals ("LSRPs") who will have responsibility for oversight of environmental investigation and cleanup. CME Associates will have a number of qualified LSRPs to implement the site remediation projects.

CME Associates provides Environmental Engineering services for the following comprehensive disciplines:

ENVIRONMENTAL SITE ASSESSMENT

- Phase I (ASTM E 1527-05)
- Preliminary Site Assessments
- Environmental Assessment & Impact Statements
- E.O. 215/ SEQRA
- NEPA Compliance

SITE CHARACTERIZATION AND REMEDIATION

- Site Investigations
- Soil and Groundwater Investigation
- Remedial Investigations
- Ecological Evaluations
- Sediment Investigations
- Hydrogeologic Investigations & Groundwater Modeling
- Remedial Action Workplan and Remedial Action Implementation
- Licensed Site Remediation Professional Services
- Soil and Groundwater Remediation
- ISRA Compliance
- Underground Storage Tank (UST) Program

- NJDEP Cleanup Star Program
- Brownfields Redevelopment Program
- Technical Support for Grant Applications
- Implementation of Remedial Investigations and Remedial Actions
- Preparation of Beneficial Use Determination (BUD) for Recyclable Materials
- Preparation of Applicable Use Determination (AUD) for Dredged Materials
- General Construction Management and Construction Oversight

AIR PERMITTING

- Subchapter 8 Preconstruction Permits for Landfills and New Sources
- Subchapter 22 Operating Permits
- Risk Screening
- Permit Compliance Monitoring, Record-Keeper, and Reporting
- Air Pollution Control Device Evaluation

SOLID WASTE MANAGEMENT

- Engineering and Permitting for Landfills
- Evaluation of Waste Reduction, Recycling, and Collection
- Development and implementation of Closure and Redevelopment Plans
- Preparation of Landfill Disruption Permit Application
- Preparation of Landfill Closure and Post-Closure Permit Application
- Preparation of Landfill Closure and Post-Closure Financial Plans
- Landfill Leachate and Groundwater Management Systems
- Landfill Gas Control and Gas-to-Energy System Design
- Underslab Gas Ventilation System Design

LAND USE MANAGEMENT AND REGULATORY COMPLIANCE

- Preliminary Wetland Evaluations
- Tidal/ Freshwater Wetland Delineation
- Wetland Functional Assessment
- Local/Federal & State Permit Applications
- Wetland Mitigation/Mitigation Banks/ Wetland Monitoring
- Ecological Restoration
- Floodplain Management and Stream Encroachment Permitting
- NJPDES Storm Water/Groundwater Permitting
- EPA Baseline Ecological Evaluations
- Threatened & Endangered Species Surveys
- Macro Invertebrate Benthic Surveys
- Hydrologic Monitoring

SITE ASSESSMENT/INVESTIGATION

CME Associates has extensive experience in performing Preliminary Assessments on agricultural, industrial, commercial, and residential properties in accordance with the NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E), and in general conformance with ASTM Standard Practice for Environmental Site Assessments (ASTM E1527-05). CME Associates has coordinated with various municipal and county government agencies in support of open space acquisition projects. The following projects involving Site Assessment and Investigations are presented as typical examples:

Brookland Properties, Monroe Township, Middlesex County, New Jersey

On behalf of the Middlesex County Improvement Authority (MCIA), CME Associates conducted a Preliminary Assessment of two non-contiguous parcels in Monroe. The properties were historically used as farmland and orchards, and are being proposed for open space.

Suydam Property, South Brunswick Township, Middlesex County, New Jersey

On behalf of the Middlesex County Improvement Authority (MCIA), CME Associates conducted a Preliminary Assessment of an approximately 30-acre site in South Brunswick. The property was historically used for timber harvesting. The property is being proposed for open space.

Woodbridge Open Space, Woodbridge Township, Middlesex County, New Jersey

CME Associates conducted a Preliminary Assessment of three properties totaling over 14-acres in Woodbridge Township for the Middlesex County Improvement Authority (MCIA). The properties consisted of undeveloped woodland with areas of concern including former agricultural fields and possible impacts from off-site contamination. The properties are being proposed for open space.

Finnegans Lane, North Brunswick Township, Middlesex County, New Jersey

CME Associates conducted a Preliminary Assessment of a 7.75-acre wooded property for North Brunswick Township that was historically used as farmland. We also conducted a Site Investigation to determine if contaminants related to historic pesticide use were present on the property. The property is proposed for open space under the Green Acres Program.

New Jersey Meadowlands Commission, Secaucus, Hudson County, New Jersey

CME Associates conducted a preliminary assessment and prepared a Phase I Environmental Site Assessment Report for a former bowling pin manufacturing facility and automobile tire warehouse in Secaucus, New Jersey. The property is proposed for open space.

New Jersey Meadowlands Commission

Moonachie / Carlstadt, Bergen County, New Jersey

CME Associates conducted a preliminary assessment and site investigation for three (3) vacant parcels totaling over 40-acres in Moonachie and Carlstadt, New Jersey. The properties had areas of concern including historic farm fields and historic fill. The properties are proposed for open space.

New Jersey Meadowlands Commission East Rutherford, Bergen County, New Jersey

CME Associates conducted a preliminary assessment for an approximately 22-acre property in East Rutherford, New Jersey. The property is proposed for open space.

Matawan Water Works Facility, Aberdeen Township, Monmouth County, New Jersey

On behalf of the Township of Aberdeen, CME Associates conducted a Preliminary Assessment of a former municipal water facility. Areas of concern identified on the property include above ground and underground storage tanks, historic fill, and other historic uses of the property. The property is proposed for redevelopment with an adjacent Brownfield site.

Iselin Fire House, Woodbridge Township, Middlesex County, New Jersey

CME Associates conducted a Preliminary Assessment of commercial property for the Woodbridge Township Board of Fire Commissioners. The property is proposed to be redeveloped as a park.

Former Nike Site, Township of Old Bridge, Middlesex County, New Jersey

On behalf of the Township of Old Bridge, CME Associates prepared a Preliminary Assessment Report and Site Investigation Report for the former Nike Missile Base site. The property is approximately 41-acres. Portions of the site are proposed to be redeveloped as a commuter parking lot and a recreation area.

Carteret Marina, Borough of Carteret, Middlesex County, New Jersey

The Borough of Carteret intends to develop the Carteret Marina site as part of a waterfront development project. CME Associates conducted a Preliminary Assessment and Site Investigation of the property, in accordance with N.J.A.C. 7:26E-3. The Site Investigation

was conducted to evaluate potential contamination in historic fill. In support of the proposed dredging operation, CME Associates conducted a detailed investigation of contaminated sediment in the Arthur Kill. CME Associates also prepared a Waterfront Development Permit and Stream Encroachment Permit for the property.

SITE REMEDIATION & BROWNFIELD REDEVELOPMENT

CME Associates' environmental professionals have extensive experience working with the NJDEP Site Remediation Program to successfully complete remediation projects. CME provides Licensed Site Remediation Professional Services and has several LSRP's on staff. CME Associates has the in-house capabilities to prepare the remediation design documents and construction bid documents for the proposed remedial action. Site remedial investigations and remedial actions are conducted in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E). In providing our environmental services, we streamline site investigations and remediation decisions towards a common goal of striking a balance between environmental regulations and business requirements of our clients. A summary of relevant projects are provided below.

Former South River Metal Products Facility Aberdeen, New Jersey

An abandoned industrial facility on a 13.9 acre site is being redeveloped for residential use. On behalf of Aberdeen Township, CME Associates managed the demolition of the remaining structures and prepared a Remedial Investigation Workplan to evaluate contamination in multiple areas of concern. A Remedial Investigation was conducted, including extensive sampling of soil, groundwater, sediment, and surface water. Funding for the investigations was obtained through a New Jersey Hazardous Discharge Site Remediation Fund (HDSRF) grant.



Former South River Metal Products Facility

Former Ernst Zobel Facility Aberdeen, New Jersey

An abandoned industrial facility on a 3.8 acre property is being evaluated for redevelopment. On behalf of Aberdeen Township, CME Associates is coordinating the demolition of the remaining structures and has prepared a Remedial Investigation Workplan to evaluate contamination in multiple areas of concern. Funding for the investigations will be obtained through a HDSRF grant.

Former Reds Marina Highland Park, New Jersey

On behalf of the Middlesex County Improvement Authority, CME Associates provided engineering services for the remediation of an abandoned boatyard and marina on the Raritan River. The work included coordination of demolition activities, a remedial investigation of soil and groundwater, land use permitting, preparation of a Remedial Action Workplan for soil remediation and capping, preparation of contract documents, and management of the remediation. CME Associates secured State HDSRF grants to finance the investigations and remediation. The property is currently preserved as open space and is part of the County park system.

Former Springfield Steel Drum Site Middlesex, New Jersey

On behalf of the Middlesex County Improvement Authority, CME Associates is providing environmental engineering services for the redevelopment of a vacant former industrial site. CME Associates conducted a remedial investigation of contaminated soil and groundwater, and is preparing a Remedial Action Workplan in coordination with a residential site development plan. Funding for the investigations is through a U.S. EPA brownfield assessment grant.

Lee Place Redevelopment Site City of Plainfield, New Jersey

On behalf of the City of Plainfield, CME Associates is performing remedial investigations of contaminated soil and groundwater at the site of a former dry cleaning facility. The property is proposed to be redeveloped for residential use. Funding for the investigations is through a U.S. EPA brownfield assessment grant.

Arlington Avenue Redevelopment Site City of Plainfield, New Jersey

On behalf of the City of Plainfield, CME Associates is performing remedial investigations of contaminated soil and groundwater at the site of a former gas station and strip mall. The property is proposed to be redeveloped for residential use. The work is funded through a State HDSRF grant.

Former Middlesex Bus Co. Site **East Brunswick, New Jersey**

On behalf of the Township of East Brunswick, CME Associates provided engineering services for the remediation of a former bus depot site. The work included a remedial investigation of multiple areas of concern, including an evaluation of contamination in soil, groundwater, sediment, and surface water emanating from the former operations of the USTs. CME Associates prepared a Remedial Action Workplan for site remediation. The investigations were financed through a State HDSRF grant. The property is proposed to be redeveloped for residential use.



Former Middlesex Bus Company Site

Carteret DPW **Carteret, New Jersey**

On behalf of the Borough of Carteret, CME Associates provided engineering services for the construction of a new municipal public works facility at the site of a former wastewater treatment plant. The work included site plan design, land use permitting, and site remediation. CME Associates conducted remedial investigations of contaminated soil and groundwater, prepared a Remedial Action Workplan and contract documents, and managed the site remediation.

Environmental Center **Highland Park, New Jersey**

On behalf of the Borough of Highland Park, CME Associates provided environmental engineering services for the development of a municipal environmental center on a vacant property bordering the Raritan River. The work included a remedial investigation of contaminated historic fill, land use permitting, and preparation of a Remedial Action Workplan for site remediation in coordination with the construction. CME Associates provided field oversight of the remedial work and prepared a Remedial Action Report. The investigations were financed through a State HDSRF grant.

Cranford Crossing Redevelopment Project **Cranford, NJ**

The Cranford Crossing site was redeveloped into a mixed-use commercial and residential building. Historically, a gas station and dry cleaning operation existed on the site and had caused soil and groundwater contamination. The remedial action included the injection of Hydrogen Releasing Compounds into the groundwater and installation of a site-wide cap. On behalf of Cranford Township, CME Associates prepared a Remedial Action Report and obtained a No Further Action letter for the site. CME Associates reports to the NJDEP under the biennial certification program for the Deed Notice and Classification Exception Area to evaluate the attenuation and potential off-site migration of the TCE plume.



Cranford Crossing

Bayonne Golf Club Redevelopment Project **Bayonne, New Jersey**

CME Associates implemented the elements of site remedial actions, prepared a Remedial Action Report and obtained a No Further Action (NFA) letter for the Bayonne Golf Club Redevelopment Site consisted of contaminated Brownfields including the former Bayonne Sanitary Landfill and the former PSE&G site that originally included 46 Areas of Concern (AOCs). CME Associates designed a long term groundwater monitoring network system consisting of thirty-six (36) shallow and deep monitoring wells to evaluate the integrity of natural clay liner and the perimeter containment system. CME Associates provides ongoing services at the site for the post-closure care and maintenance activities including operations of the leachate control system and leachate pre-treatment system, groundwater sampling and monitoring, and landfill gas quality monitoring.



Bayonne Golf Club

SOLID WASTE MANAGEMENT AND LANDFILL REDEVELOPMENT:

CME Associates provides its clients, including municipalities, landfill owners and operators, with solid waste management and landfill engineering services as follows:

- Development and Implementation of Solid Waste Master Plans
- Evaluation of waste reduction, recycling, and collection
- Analysis of treatment and disposal alternatives
- Landfill siting and design
- Solid Waste permitting
- Engineering and Permitting Management during construction and operation of landfills
- Planning, permitting, environmental compliance, engineering, and environmental monitoring
- Integrated management including monitoring of landfill gas and leachate, incorporating treatment, control, and landfill gas utilization.
- Development and Implementation of Closure and Redevelopment Plans

CME Associates was directly responsible for the design, permitting and successful implementation of the following select landfill closure and redevelopment projects:

Overpeck Park Landfill Areas I&IV **Teaneck, Leonia and Palisades Park** **Bergen County, New Jersey**

On behalf of the County of Bergen, CME Associates prepared engineering and construction bid documents for the Closure and Redevelopment of Areas I & IV of the former Overpeck Park Landfill. The redevelopment includes the design of a Passive Recreation Park including miles of pedestrian and equestrian pathways, the stabilization of 4,000 feet of lake bank slopes and the implementation of the Remedial Action Work Plan for the Teaneck Creek Conservancy. The improvements includes the construction of a pedestrian crossing bridge and the replacement of an existing culvert. CME assisted the County of Bergen in obtaining local, state and federal permits for the implementation of the Park Improvements. The construction activities are expected to start in Spring of 2015.

Former Overpeck Landfill / Waste Water & Air Monitoring Compliance Services Bergen County, New Jersey **Bergen County / Department of Parks**

The New Overpeck County Park was constructed on the former Overpeck Landfill, a municipal solid waste landfill in Bergen County, New Jersey. The landfill closure permit requires collection of landfill leachate and disposal to the

Bergen County Utilities Authority (BCUA) through the three (3) pump stations at the site. In addition, sub-slab gas venting systems were installed at the four (4) onsite buildings to prevent the accumulation of landfill gases to potentially dangerous levels.

CME Associates has been providing the necessary professional services for the Operation and Maintenance of the three pump stations. In addition, CME Associates implements a monthly waste water sampling and testing program and reports the wastewater sampling results to the BCUA on their Self-Monitoring Report Forms.

CME Associates also collects air samples from each of the four building gas venting systems and prepares the necessary reports in relation to the air permit requirements.

The City of Linden Sanitary Landfill **Linden, New Jersey**

On behalf of the City of Linden, CME Associates provided engineering and environmental services for the landfill closure and post-closure activities at the City of Linden Sanitary Landfill in Linden, New Jersey. The professionals of CME Associates were directly involved in the design and development of the Landfill Closure and Post-Closure Plans, negotiations with the NJDEP to obtain the necessary approvals, design and providing construction oversight for the engineering control systems including the slurry wall and leachate collection system. CME Associates also provided Quality Assurance services for the landfill closure activities including final capping system and storm water management system. CME Associates designed an active landfill gas extraction and control system with enclosed flare, prepared specification / contract documents, and assisted the City to obtain project financing through the NJEIT. CME Associates prepared permit applications for the active gas collection and treatment system, and obtained the NJDEP Subchapter 8 and Title V air permit approvals. CME Associates has been providing on-going services for the leachate and landfill gas monitoring in accordance with the approved Closure Plan.

Industrial Land Reclaiming Landfill **Edison, New Jersey**

CME Associates provided full environmental engineering services for the proposed redevelopment of a 41 acre portion of the ILR Sanitary Landfill in Edison, New Jersey. Site remediation work included evaluations of the landfill waste and leachate, and investigations of contamination in soil, groundwater, sediment, and surface water. CME Associates prepared a Remedial Action Workplan consistent with the proposed site plan and property end use. CME Associates modified the Landfill Closure and Post-Closure Care Plan for the new development, designed an active landfill gas extraction system for the proposed buildings, and developed a financial plan for the

closure and long-term operation and maintenance of the landfill controls. CME secured all Federal, State, and local permits and environmental approvals for landfill disturbance, coastal and freshwater wetlands impacts, tide-lands, waterfront development, and soil erosion and sediment control.

Former Bayonne Landfill **Bayonne, New Jersey**

The professionals at CME Associates designed landfill closure and redevelopment plans for the former Bayonne Landfill. The professional services included the design and the implementation of the slurry wall, leachate collection and conveyance system, and leachate pre-treatment system, landfill gas collection and control system with enclosed flare. CME Associates provided construction oversight for the implementation of the final cover system including Processed Dredged Materials and clean fill. CME Associates prepared permit applications for the active gas collection and treatment system, and obtained the NJDEP Subchapter 8 and Title V air permit approvals including the negotiations of the final permit conditions with NJDEP. CME Associates designed and provided construction oversight for the underslab gas ventilation system for the Club House. The former Bayonne Landfill site was redeveloped as a part of a private 18-hole Scottish Links golf course.

Former Morris Park Avenue Landfill **Carlstadt, New Jersey**

The professionals at CME Associates designed an active landfill gas control system at the former Morris Park Avenue Landfill for the development of a warehouse distribution center. The gas control system included the following main elements:

- An active gas extraction system for the landfill gas;
- An underslab air venting system capped by a vapor barrier; and
- A monitoring system consisting of methane sensors, transmitters, and receivers.

REGULATORY COMPLIANCE AND PERMITTING

CME Associates identifies anticipated permitting requirements for a particular investigation or remediation project. CME Associates has unique expertise in providing regulatory compliance services regarding the NJDEP Land Use Regulation Program. Typically, these permits may include the preparation of applications for Freshwater Wetlands (N.J.A.C. 7:7A) including wetlands delineation and Letter of Interpretation (LOI), preparation of NJDEP freshwater wetlands general permits, individual

permits, and wetlands functional assessments. Depending on the impact on the regulated wetlands and buffers, compensatory wetlands mitigation may be required. The design of the wetlands mitigation will require environmental characterization, tidal studies, and ground-water monitoring of the particular site to evaluate the site suitability. Certain projects may require Stream Encroachment permit applications in accordance with the N.J.A.C. 7:13. Typically, simple projects may require a General Permit or a Permit-by-Rule application for regulated activities in Flood Hazard Area. For Projects with complex activities, an Individual Permit may be required. A summary of select projects are provided below:

New Jersey Turnpike Authority Interchange 12 Final **Improvements Project** **Carteret, New Jersey**

On behalf of the New Jersey Turnpike Authority, CME Associates prepared and procured the environmental permits for the NJTA Interchange 12 Final Improvements project including the following project tasks:

- Wetlands delineation and Letter of Interpretation (LOI);
- NJDEP Freshwater Wetlands General Permit Nos. 12 and 14 for site investigation activities;
- An Individual Freshwater Wetlands Permit/ Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency;
- Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers, preparation of wetlands mitigation proposal, and engineering design and construction bid documents for the compensatory wetlands mitigation for approximately 10-acre area including the procurement of NJDEP and ACOE permit approvals.
- Construction oversight for the implementation of the compensatory wetlands mitigation.



Logistics Center **Edison, New Jersey**

CME Associates prepared the following permit applications and obtained approvals for the redevelopment of a portion of the ILR Landfill into the 550,000 SF warehouse/office building:

- Wetlands delineation and Letter of Interpretation (LOI);
- NJDEP Freshwater Wetlands General Permit Nos. 12 and 14 for site investigation activities;
- Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency

Former South River Metals Redevelopment Site **Aberdeen, New Jersey**

CME Associates prepared and procured the following NJDEP permits for the redevelopment of the Former South River Metals Products industrial site in Aberdeen, New Jersey:

- Wetlands delineation; and
- NJDEP Freshwater Wetlands General Permit Nos. 12 and 14 for site investigation activities;

Redevelopment of Former Hess Oil and Gasoline Bulk Storage Facility **Newark, New Jersey**

CME Associates prepared and procured NJDEP permits for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey to a dredge processing facility, including the following:

- Waterfront Development Permit
- Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers

City of Linden Landfill **City of Linden, New Jersey**

CME Associates prepared and obtained the following NJDEP permits:

- Modification to the Waterfront Development Permit
- Freshwater General Permit #5

UNDERGROUND STORAGE TANK PROGRAM

CME Associates has significant experience in assisting clients with maintaining compliance with the Underground Storage Tank regulations (NJAC 7:14B) and the Technical Requirements for Site Remediation (NJAC 7:26E). Our professionals prepare initial registrations for any unregistered tanks and amend registration information for any modified UST systems, UST Closure Reports, and perform biennial deed notice and groundwater CEA reporting requirement for previously remediated sites. A summary of select projects are provided below:

Underground Storage Tank Closure **East Brunswick, NJ**

On behalf of the Middlesex County Improvement Authority (MCIA), CME Associates prepared technical specifications and documents, and provided technical oversight for tank closure. CME Associates prepared a Closure Report for an underground storage tank (UST) system at the Tamarack Golf Course Maintenance Facility in East Brunswick Township, NJ. CME Associates conducted a limited site investigation to determine if a 4,000 gallon gasoline storage tank had leaked. CME Associates provided field oversight and subsurface evaluation during tank removal activities. CME Associates confirmed that a product release occurred, reported the release to NJDEP, and implemented the remedial action. CME Associates conducted post-excavation sampling to document that contaminated soil was removed to the applicable remediation standards, and provided oversight during site restoration. CME Associates made recommendations regarding groundwater contamination investigation.

School Avenue Pump Station **Franklin Township, Somerset County**

On behalf of Franklin Township Sewerage Authority, CME Associates performed the closure of an underground storage tank (UST) system at the School Avenue Pump Station in Franklin Township. A 1000-gallon UST used to store diesel fuel for an emergency power generator was decommissioned and removed. Post-excavation samples were collected along the centerline of the former tank footprint and directly beneath the underground piping. A UST Closure Report was submitted to NJDEP.

H&L Sheet Metal Works Site

CME Associates conducted a remedial action for the H&L Sheet Metal Works facility located at 119 Lewis Street in Eatontown, New Jersey. The property had a 550-gallon gasoline underground storage tank (UST) that was removed from the site. A Cleanup Star application was submitted for this area of concern (AOC) and a No Further Action (NFA) letter from the NJDEP was received in less than one week.

87 Deerfield Road – Borough of Sayreville

CME Associates conducted a Remedial Action for contaminated soil related to a 550-gallon heating oil UST located at 87 Deerfield Road in the Borough of Sayreville, Middlesex County, New Jersey. The tank and contaminated soil were removed and disposed. A Cleanup Star application was submitted to the NJDEP and a NFA letter was received within two weeks.

Government Client List

CME Associates currently provides, or has previously provided, Municipal and / or Consulting Engineering and Planning Services to the following Governmental Entities.

- Township of Aberdeen
- City of Atlantic City
- Atlantic County Utilities Authority
- Borough of Atlantic Highlands
- Township of Barnegat
- City of Bayonne
- Bayshore Regional Sewerage Authority
- Borough of Beach Haven
- Township of Belleville
- County of Bergen
- Bergen County Utilities Authority
- Borough of Bergenfield
- Township of Berkeley
- Berkeley Township Municipal Utilities Authority
- Borough of Berlin
- Township of Bloomfield
- Borough of Bloomingdale
- Township of Bordentown
- Borough of Bradley Beach
- Township of Brick
- Brick Township Municipal Utilities Authority
- City of Bridgeton
- City of Brigantine
- City of Burlington
- County of Burlington
- Burlington County Bridge Commission
- County of Camden
- Borough of Carteret
- Carteret Port Authority
- Carteret Redevelopment Agency
- Township of Cranford
- County of Cumberland
- Cumberland County Improvement Authority
- Cumberland County Utilities Authority
- Township of Delran
- Township of Deptford
- Borough of Dumont
- Borough of Dunellen
- Township of East Brunswick
- East Brunswick Utilities Department
- Township of East Greenwich
- Borough of East Newark
- Borough of East Newark - Board of Education
- City of East Orange
- East Orange Water Commission
- Borough of Edgewater
- Township of Edgewater Park
- Township of Edison
- City of Elizabeth
- City of Englewood
- Essex County
- Essex County Improvement Authority
- City of Estell Manor
- Township of Evesham
- Borough of Fair Haven
- Borough of Fair Lawn
- Township of Fairfield
- Borough of Fanwood
- Borough of Flemington
- Township of Florence
- Township of Franklin (Somerset County)
- Township of Franklin (Gloucester County)
- Franklin Township Sewerage Authority
- Township of Freehold
- County of Gloucester
- City of Gloucester
- Gloucester County Improvement Authority
- Gloucester County Utilities Authority
- Township of Haddon
- Borough of Haddon Heights
- Township of Hamilton
- Township of Hamilton Bureau of Water Pollution Control
- Township of Hazlet
- Hazlet Township Sewerage Authority
- Borough of Highland Park
- Township of Hillsborough
- Township of Holmdel
- Township of Holmdel Planning Board
- Housing Authority of Bergen County
- Township of Howell
- Township of Howell Planning Board
- Township of Howell Municipal Utilities Authority
- Township of Howell Zoning Board
- County of Hudson

CME Associates currently provides, or has previously provided, Municipal and / or Consulting Engineering and Planning Services to the following Governmental Entities.

- Township of Irvington
- Township of Jackson
- City of Jersey City
- Jersey City Redevelopment Agency
- Jersey City Municipal Utilities Authority
- Joint Meeting of Essex & Union Counties
- Borough of Keansburg
- Borough of Keyport
- Township of Lacey
- Borough of Lake Como
- Township of Lakewood
- Lakewood Municipal Utilities Authority
- Borough of Lavallette
- City of Linden
- Township of Little Falls
- Township of Lumberton
- Township of Manalapan
- Borough of Manasquan
- Township of Mantua
- Township of Maple Shade
- Township of Marlboro
- Township of Marlboro Water Utility Division
- Mercer County Park Commission
- County of Mercer
- Borough of Metuchen
- Township of Middle
- County of Middlesex
- Middlesex County Improvement Authority
- Middlesex County Utility Authority
- Township of Millburn
- Township of Millstone
- Borough of Milltown
- County of Monmouth
- Borough of Monmouth Beach
- Township of Monroe
- Township of Montclair
- Town of Morristown
- Township of Mount Holly
- Township of Neptune
- Neptune Township Sewerage Authority
- City of Newark
- City of New Brunswick
- State of New Jersey
- New Jersey Department of Transportation
- Township of North Brunswick
- County of Ocean
- Township of Ocean
- Township of Ocean Sewerage Authority
- Township of Old Bridge
- Old Bridge Municipal Utilities Authority
- Borough of Palmyra
- Borough of Paulsboro
- Township of Pemberton
- Pemberton Township Municipal Utilities Authority
- City of Plainfield
- Plainfield Municipal Utilities Authority
- Township of Plainsboro
- City of Pleasantville
- Township of Piscataway
- Borough of Point Pleasant Beach
- Point Pleasant - Board of Education
- Point Pleasant Boro
- City of Rahway
- Rahway Valley Sewerage Authority
- Borough of Red Bank
- Township of Riverside
- Borough of Rumson
- County of Salem
- Salem County Pollution Control Finance Authority
- Borough of Sayreville
- Borough of Sayreville Board of Education
- Borough of Seaside Park
- SERA – Sayreville Economic Redevelopment Agency
- Borough of Scotch Plains
- City of South Amboy
- South Amboy Redevelopment Agency
- Township of Southampton
- Borough of South Bound Brook
- Township of South Brunswick
- South Monmouth Regional Sewerage Authority
- Borough of South Plainfield
- Borough of South River
- Borough of Spotswood
- Township of Stafford

CME Associates currently provides, or has previously provided, Municipal and / or Consulting Engineering and Planning Services to the following Governmental Entities.

- Township of Stafford Water and Sewer Utility Department
- City of Summit – Board of Recreation
- County of Sussex
- Borough of Tinton Falls
- Township of Toms River
- City of Trenton
- Township of Union
- City of Union City Board of Education
- County of Union
- Union County Utilities Authority
- Union County Improvement Authority
- Township of Upper Freehold
- Township of Voorhees
- Township of Wall
- Township of Waterford
- Town of West New York
- Township of Westampton
- Western Monmouth Utilities Authority
- Borough of Wildwood Crest
- Township of Willingboro
- Township of Winslow
- Winslow Township School Board
- Township of Woodbridge
- Borough of Woodland Park
- New Jersey Meadowlands Commission
- New Jersey Turnpike Authority –
(Turnpike and Garden State Parkway Divisions)
- State of New Jersey Rate Payer Advocate

Awards

NATIONAL ASSOCIATION OF CLEAN WATER AGENCIES (NACWA)

2012 OPERATIONS AND ENVIRONMENTAL PERFORMANCE AWARD

CME Associates was honored with a 2012 National Environmental Achievement Award from the National Association of Clean Water Agencies (NACWA) at the organization's award ceremony on Feb.13, in Los Angeles, Calif. CME Associates was recognized with an Operations and Environmental Performance Award for its Cogeneration Facility, which is credited with significant environmental and cost benefits.

PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE (PEPP)

2012 PROFESSIONAL DEVELOPMENT AWARD

CME Associates received the Professional Development Award from the PEPP (Professional Engineers in Private Practice) at their Annual Awards Dinner held in San Diego, CA on July 13, 2012. Since 1960, NJSPE has used this award to recognize engineering employers who have made significant contributions to the advancement and improvement of engineering practices.

NEW JERSEY SOCIETY OF PROFESSIONAL ENGINEERS (NJSPE)

2012 PRIVATE PRACTICE DEVELOPMENT AWARD

CME Associates received the Private Practice Professional Development Award from the NJSPE at their Annual Awards and Installation Reception held at Trenton Country Club on June 7, 2012. The Award is presented to the nominated private practice firm, employing engineering personnel, that has made the most outstanding contribution to the advancement and improvement of the engineering profession through its policies and practices.

ASSOCIATION OF ENVIRONMENTAL AUTHORITIES

2010 WAVE AWARD FOR ENERGY SAVINGS

CME Associates designed and constructed a Co-generation of heat and power facility at the Joint Meeting of Essex and Union Counties wastewater treatment plant. The project was recognized for energy savings at the 2010 Annual Meeting of the AEANJ on March 11, 2010.

NJ SOCIETY OF MUNICIPAL ENGINEERS

CME Associates is dedicated to providing quality project solutions for its clients, and has been recognized by the *New Jersey Society of Municipal Engineers* at its Annual Awards Presentation for a number of projects as follows:

2016

Borough of Milltown
Electrical Substation Construction

Town of West New York
Improvements to Veterans Park

Township of Piscataway
Department of Public Works Vehicle Canopy Project

2015

Township of Woodbridge
Avenel Street Improvements

Township of Marlboro
Tennent Road Water Treatment Plant

Township of Delran
Delran Community Park

Township of Manalapan
Splash Pad and Comfort Building

2014

Township of Evesham
Diamonds at Arrowhead Park

County of Middlesex
Intersection of Bordentown Ave. and Ernston Rd.

Borough of Milltown
Improvements to South St.

Borough of Sayreville
Sayreville Water Treatment Plant Expansion

Township of Plainsboro
Mapleton Rd. Improvements

2013

Township of Stafford
Ocean Acres stormwater Management Investigation

Township of Manalapan
Iron Ore Rd., High Bridge Rd., Mount Vernon Rd.,
Intersection Improvements

NJ SOCIETY OF MUNICIPAL ENGINEERS

Township of Woodbridge
Fulton Street Improvements

Town of West New York
Improvements to Dewey and Fillmore Parks

Township of Aberdeen
Solar Energy Savings Program

2012

Borough of Carteret
Construction of the Carteret Recreation Pier

Borough of Carteret
Improvements to Sullivan Field

Borough of South River
Water Treatment and Supply Improvement Project

Borough of Milltown
Management of a Flood Prone Essential Utility -
Milltown Electrical Substation

2011

Township of South Brunswick
Improvements to Route 522 - Section 5B

Borough of Carteret
Waterfront Redevelopment Project

Township of East Brunswick
Heavenly Farms Ball field for Children with Special Needs

Township of North Brunswick
Belcourt Water System Improvements

2010

Borough of Milltown
Electrical Transformer Replacement

Township of Plainsboro
Dey Rd. & Scudders Mill Rd. Intersection Improvements

Borough of Sayreville
Waterfront Redevelopment Management

Township of Manalapan
Scout Lake at Holiday Park Improvements

2009

Borough of Dunellen
McCoy Park

Borough of Milltown
Multi Phased Water System Improvements – Phase IV

Township of Aberdeen
Brownfield Management Project

2008

Borough of Sayreville
NL Redevelopment Site

Township of Plainsboro
Intersection of Dey Rd. and Scudders Mill Rd.

Township of North Brunswick
Community Park

2007

Borough of Sayreville
Neptune RTS Redevelopment Management Project

Township of Plainsboro
Scotts Corner Rd. Pedestrian Improvements

2006

Borough of Milltown
Replacement of the Church Street Pump Station

Borough of Sayreville
Management of the Strip Mine Reclamation Project -
Utilizing Compost

2005

Township of South Brunswick
Veteran's Park Sensory Garden

2004

Borough of Sayreville
Sayreville Water Treatment Plant

Borough of Milltown
Stormwater Management Plan

Borough of South River
Recreation Management Plan

2003

Borough of Milltown
Milltown Pool

Borough of Sayreville
Kennedy Park Skate Park

2002

Township of Plainsboro
Birth of a Village Towne Center

2001

Township of Aberdeen
Water System Management Project

Township of Aberdeen
Sewage Pumping Station Rehabilitation

Borough of Sayreville
Economic Development Via Water Resource Management
Township of Jackson
Recreation Master Plan Element

2000

Township of South Brunswick
Growth Control via Open Space Acquisition

Township of Plainsboro
Improvements to the Plainsboro Pond Dam

1999

Township of South Brunswick
Multi Phase Water System Management Project

1998

Borough of Sayreville
Sayreville Landfill III Superfund Site Closure Project

1997

Township of Plainsboro
Transportation Improvement Project Management Plan

Township of Plainsboro
Managing the Rehabilitation of a Critical Resource
(a.k.a. Improvements to the Plainsboro Pond Dam)

1996

Borough of Sayreville
Crossway Creek Environmental Improvements

1995

Borough of Milltown
Multi-Phased Water System Improvements
Borough of Sayreville
Public-Private Partnership Sayreville/Duhernal Water
Supply System

Borough of Sayreville
Reducing Recreational Costs through Public Partnerships,
Morgan Waterfront Park

1994

Borough of Sayreville
Hazardous Site Mitigation and Remediation Project -
Soccer Field Complex

Borough of Sayreville
Improvements to the Morgan Water Treatment Plant
Backwash System

1993

Borough of Sayreville
Sayreville Recreational Soccer Field Complex

1992

Borough of Sayreville
Improvements to Burkes Park

Borough of Sayreville
Replacement of the Pulaski Avenue 3.0 MG Standpipe

1991

Borough of South River
UST Management Program

Borough of Sayreville
Morgan Recreational Improvements - Phase I

1990

Borough of Sayreville
Kennedy Park Tot Lot Improvements

Borough of Milltown
Roadway System Evaluation

1989

Borough of Sayreville
Water and Wastewater System Master Plans

Borough of Helmetta
Wastewater Collection System

Borough of Sayreville
South Bay Wastewater Collection System and Pumping
Stations

1988

Borough of Sayreville
Kennedy Park Lake Restoration

RECREATION FACILITY AWARDS

CME Associates has been recognized by various park and recreational organizations for excellence in design.

The Robert B. Kinsey Memorial Award is given each year by the NJ Recreation and Park Association at their Annual Conference in recognition of Design Excellence.

2010 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class II, for the Manalapan Recreation Center Expansion, located in the Township of Manalapan, Monmouth County, NJ

2008 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class IV for the Marina Area Improvements, located in Mercer County Park, Mercer County, NJ.

2007 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class II for Rowland Park, located in the Township of South Brunswick, Middlesex County, New Jersey.

2007 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class III for the River Rd. Waterfront Park, located in the Borough of Sayreville, Middlesex County, New Jersey.

2005 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class II for the Marlboro Aquatic Center, located in the Township of Marlboro, Monmouth County, New Jersey.

2005 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class III for the Fragrance and Sensory Garden located in the Township of South Brunswick, Middlesex County, New Jersey.

2004 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class IV for the Level Playing Fields and Family Ice Skating Facility, located in Middlesex County's Roosevelt Park. The award is given each year by the New Jersey Recreation and Park Association at their Annual Conference.

2004 ROBERT B. KINSEY MEMORIAL AWARD

CME Associates received the Excellence in Design Award, Class III, for the Kennedy Park Skate Park, a 10,000 sf concrete skate park located in the Borough of Sayreville.

2005 MONMOUTH COUNTY BOARD OF RECREATION COMMISSIONERS AWARD

CME Associates received the 2005 Charles M. Pike Award for facility design for the Marlboro Aquatic Center, located in the Township of Marlboro, from the Monmouth County Board of Recreation Commissioners.

2004 GOVERNOR'S AWARD

On May 18, 2004, CME Associates received the Ruth Hughes Innovative Accessible Recreation Facility Award at the Annual Governor's Conference for Individuals with Disabilities for the Level Playing Fields at Roosevelt Park, Edison, NJ.

Firm References List

TOWNSHIP OF ABERDEEN

Holly Reycraft • Township Manager • 732-583-4200

TOWNSHIP OF BARNEGAT

Martin Lisella • Township Administrator • 609-698-0080

CITY OF BAYONNE

Mayor James Davis • 201-858-6010

TOWNSHIP OF BERKELEY MUNICIPAL UTILITIES AUTHORITY

Michele Nugent • Executive Director • 732-237-0100

TOWNSHIP OF BORDENTOWN

Brian Johnson, Director of Community Development
609-298-2800 ext. 2116

TOWNSHIP OF BRICK

Joanne Bergin, • Business • Administrator •
732-262-1040

BURLINGTON COUNTY BRIDGE COMMISSION

Frank Harris • 856-656-2906
George Nyikita • 856-547-0505

BOROUGH OF CARTERET

Mayor Daniel J. Reiman • 732-541-3800

CUMBERLAND COUNTY IMPROVEMENT AUTHORITY

Gerard Velazquez III • Executive Director • 856-825-3700

TOWNSHIP OF DELRAN:

Jeffrey Hatcher • Business Administrator • 856-461-7734

TOWNSHIP OF DEPTFORD

Donald Banks • Director of Community Development
856-686-2218

BOROUGH OF DUNELLEN

Mayor Robert J. Seader • 732-968-3033

TOWNSHIP OF EAST BRUNSWICK

Greg Potkulski • Director of Planning and Engineering •
732-390-6870

TOWNSHIP OF EAST GREENWICH

Mayor Dale Archer • 856-423-0654

BOROUGH OF EAST NEWARK

Mayor Joseph R. Smith • 973-481-2902

BOROUGH OF EDGEWATER

Gregory Franz • Administrator • 201-943-1700

TOWNSHIP OF EDISON

Maureen Ruane • Administrator • 732-287-0900

CITY OF ELIZABETH

Steven Rinaldi • City Land Surveyor • 908-820-4278

ESSEX COUNTY DEPARTMENT OF PARKS, RECREATION AND CULTURAL AFFAIRS

Daniel K. Salvante • Director • 973-268-3517

TOWNSHIP OF EVESHAM

Thomas Czerniecki • Township Manager • 856-983-2900

BOROUGH OF FANWOOD

Mayor Colleen Mahr • 201-288-2600

TOWNSHIP OF FRANKLIN (SOMERSET COUNTY)

Tom Zilinek • Township Engineer • 732-873-2500

TOWNSHIP OF FRANKLIN (GLOUCESTER COUNTY)

Nancy Kennedy Brendt • Administrator • 856-694-1234

FRANKLIN TOWNSHIP SEWERAGE AUTHORITY

Soulmaz Khojasteh • Executive Director • 732-873-2121

COUNTY OF GLOUCESTER

Vincent M. Voltaggio, P.E. • County Engineer •
856-307-6600

GLOUCESTER COUNTY IMPROVEMENT AUTHORITY

George Strachan, Executive Director • 856• 825• 3700

GLOUCESTER COUNTY UTILITIES AUTHORITY

Ted Bamford • Assistant Director • 856-423-3500

TOWNSHIP OF HAZLET

Dennis Pino • Administrator • 732-264-1700

BOROUGH OF HIGHLAND PARK

Teri Jover • Borough Administrator • 732-819-3789

TOWNSHIP OF HILLSBOROUGH

Anthony Ferrera • Administrator/Clerk • 908-369-4313

TOWNSHIP OF HOWELL

Robert Nicastro • Deputy Mayor • 732-938-4500
Brian Geoghegan • Township Manager • 732-938-4500

TOWNSHIP OF JACKSON

Helene Schlegel • Township Administrator • 732-928-1200

JERSEY CITY MUNICIPAL UTILITIES AUTHORITY

Jeremy Farrell, Esq. • Executive Director • 201-432-1150

JOINT MEETING OF ESSEX AND UNION COUNTIES

Samuel T. McGhee • Executive Director • 732-353-1313

BOROUGH OF KEYPORT

Stephen J. Gallo • Business Administrator • 732-739-5122

BOROUGH OF LAKE COMO

Louise Mekosh • Borough Clerk / Administrator
732-681-3232

TOWNSHIP OF LUMBERTON

Brandon Umba • Administrator • 609-267-3217

TOWNSHIP OF MANALAPAN

Tara Lovrich • Township Administrator • 732-446-8305

TOWNSHIP OF MAPLE SHADE

Joseph Andl • Township Manager • 856-779-9610 ext. 161

TOWNSHIP OF MARLBORO

Jonathan Capp • Business Administrator • 732-536-0200

MERCER COUNTY PARK COMMISSION

Aaron Watson • Executive Director • 609-303-0700

MIDDLESEX COUNTY

Richard Wallner, P.E. • County Engineer •
732-745-3283

MIDDLESEX COUNTY IMPROVEMENT AUTHORITY

H. James Polos • Executive Director • 609-655-5141

MIDDLESEX COUNTY UTILITIES AUTHORITY

Richard Fitamant • Executive Director • 732-721-3800

TOWNSHIP OF MILLSTONE

Maria Delasalla • Township Administrator • 732-446-4249

BOROUGH OF MILLTOWN

Denise Biancamano • Business Administrator •
732-828-2100 Ext. 122

MONMOUTH COUNTY

Joseph Ettore, P.E. • County Engineer • 732-431-7760

TOWNSHIP OF MONROE

Mayor Gerald Tamburro • 732-521-4400

NEW JERSEY TURNPIKE AUTHORITY (Garden State Parkway Division)

Robert J. Fischer • Assistant Chief Engineer, Design •
732-442-8600

TOWNSHIP OF NORTH BRUNSWICK

Mayor Francis "Mac" Womack • 732-247-0922

TOWNSHIP OF OCEAN SEWERAGE AUTHORITY

William B. Schmeling • Executive Director • 732-531-2213

TOWNSHIP OF OLD BRIDGE

Himanshu Shah • Business Administrator • 732-721-5600

OLD BRIDGE MUNICIPAL UTILITIES AUTHORITY

Michael Roy, P.E. • Authority Engineer • 732-679-8565

BOROUGH OF PALMYRA

John Gural, CPM • Borough Administrator • 856.829.6100

BOROUGH OF PAULSBORO

Mayor Gary C. Stevenson • 856.423.1500

TOWNSHIP OF PISCATAWAY

Mayor Brian Wahler • 732-562-2300

TOWNSHIP OF PLAINSBORO

Mayor Peter Cantu • 609-799-0909

CITY OF PLEASANTVILLE

Jesse Tweedle • Mayor • 609-484-3610
Linda Peyton • City Administrator • 609-484-3603

BOROUGH OF POINT PLEASANT

Mayor Robert A. Sabosik • 732-892-3434

BOROUGH OF POINT PLEASANT - BOARD OF ED

Vinny Smith • Superintendent • 732-701-1900

BOROUGH OF SAYREVILLE

Wayne A. Kronowski • CFO • 732-390-7050

BOROUGH OF SAYREVILLE BOARD OF EDUCATION

Emidio D'Andrea • Business Administrator • 732-525-5204

BOROUGH OF SEASIDE PARK

Bob Martucci • Administrator • 732-793-3700

CITY OF SOUTH AMBOY

Mayor Fred Henry • 732-727-4200

BOROUGH OF SOUTH BOUND BROOK

Donald Kazar • Administrator • 732-356-0258

TOWNSHIP OF SOUTH BRUNSWICK

Chris Killmurray • Mayor • 732-329-4000

SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY

Mike Ruppel • Executive Director • 732-681-0611

BOROUGH OF SOUTH PLAINFIELD

Glenn Cullen • Administrator • 908-226-7602

BOROUGH OF SOUTH RIVER

Mayor John Krenzel • 732-257-1999

BOROUGH OF SPOTSWOOD

Mayor Edward Seely • 732-416-1821

TOWNSHIP OF STAFFORD

Mayor John Spodofora • 609-597-1000

James A. Moran • Administrator • 609-597-1000

UNION COUNTY UTILITIES AUTHORITY

Daniel P. Sullivan • Executive Director • 732-382-9400

TOWNSHIP OF VOORHEES

Lawrence Spellman, Esq. • Township Administrator •
856-429-7174

TOWNSHIP OF VOORHEES ENVIRONMENTAL COMMISSION

Edward Hale • Chairman • 856-429-7757

TOWNSHIP OF WALL

Jeffry Bertrand • Township Administrator • 732-449-8444

TOWNSHIP OF WESTAMPTON

Maria Carrington • Township Administrator • 609-267-1891

WESTERN MONMOUTH UTILITIES AUTHORITY

Jeff Rosen • Chairman • 732-446-9300

TOWNSHIP OF WINSLOW

Joseph Gallagher • Township Administrator • 609-567-0700

TOWNSHIP OF WOODBRIDGE

Mayor John E. McCormac • 732-634-4500

Section 4.

Relevant Experience & References



List of RAOs

RAOs Issued by Behram Turan, P.E., LSRP (License # 591482)

| | Site Name | Address | City | PI Number | Client Name | Client Contact | Client Address | Facility Type | Phase of Remediation | RAO Issued | Date of RAO |
|----|---|-----------------------------------|--|------------|---|------------------------------------|--|--|----------------------|--------------------|-------------|
| 1 | FORMER UNION COUNTY PROBATION BUILDING | 38-40 Winfield Scott Plaza | City of Elizabeth, Union County | 763537 | County of Union | Thomas Mineo (908)789-3653 | 2325 South Avenue Scotch Plains, NJ 07076 | County Facility/ Regulated UST | SI | YES (AOC BASED) | 10/20/2017 |
| 2 | WREGE FARM BURN AREA | 43 Polhemustown Road | Upper Freehold Township, Monmouth County | 579510 | WFS Holdings, LLC. | Louise Gross, (609)921-6376 | PO Box 185 Allentown, NJ 08501 | Farmland/ Open Space | RA | YES (AOC BASED) | 10/3/2017 |
| 3 | WALLINGTON MOTOR LINES, INC. | 195 Sargeant Avenue | City of Clifton, Passaic County | 008765 | Wallington Motor Lines, Inc. | Dean Berolzheimer (973)779-4440 | 195 Sargeant Avenue Wallington, NJ 07015 | Commercial/ Regulated UST / Spill Act | RA | YES (SITE-WIDE) | 09/22/2017 |
| 4 | ABERDEEN TOWNSHIP WATER DEPARTMENT | 158 Jersey Avenue | Aberdeen Township, Monmouth County | 003615 | Township of Aberdeen | Holly Reyecraft (732)583-4200 | 1 Aberdeen Square Aberdeen, NJ 07747 | Former Water Treatment Plant/ Regulated UST | RI | YES (AOC BASED) | 08/23/2017 |
| 5 | SOUTH RIVER METALS DIESEL DISCHARGE | 100 Church Street | Aberdeen Township, Monmouth County | G000008373 | Gee Vee Trucking | Giancarlo Valle (732)347-5526 | 25 Jacobs Street Old Bridge, NJ 08857 | Residential Redevelopment Site | RA | YES (AOC BASED) | 08/10/2017 |
| 6 | FORMER GENTILE FARM | 164 Freehold Road | Manalapan Township, Monmouth County | 622995 | Township of Manalapan | Tara Lovrich (732)446-8308 | 120 Route 522 Manalapan, NJ 07726 | Farmland/ Open Space | RA | YES (SITE-WIDE) | 11/10/2016 |
| 7 | 5 JOSEPH COURT | 5 Joseph Court | Old Bridge Township, Middlesex County | 575712 | Township of Old Bridge | Michael Roy (732)679-8832 | 16 Throckmorton Lane Old Bridge, NJ 08857 | Former Water Treatment Plant / Industrial / Spill Act | RA | YES (SITE-WIDE) | 11/2/2016 |
| 8 | JOINT MEETING OF ESSEX & UNION COUNTIES UTILITY LINE INSTALLATION | 500 South First Street | City of Elizabeth, Union County | 005549 | Joint Meeting of Essex and Union Counties | Samuel McGhee (908)353-1313 | 500 South First Street Elizabeth, NJ 07202 | Public Wastewater Treatment Facility | RA | YES (AOC BASED) | 08/29/2016 |
| 9 | VISCO I PARCEL | Alexis Lane | Edison Township, Middlesex County | 718166 | Middlesex County Parks and Recreation | Richard Lear (732)745-5988 | 1030 River Road Piscataway NJ 08854 | County Facility/ Open Space | RA | YES (AOC BASED) | 5/23/2016 |
| 10 | LAFAYETTE DISTRICT GARAGE | 112 Sunset Inn Road | Lafayette Township, Sussex County | 010614 | County of Sussex | Joseph Bioso (973) 579-0490 | 1 Spring Street, 3rd Floor Newton, NJ 07860 | County Facility/ Registered UST | RA | YES (AOC BASED) | 3/30/2016 |
| 11 | PLEASANTVILLE DPW | 801 North New Road | Pleasantville City, Atlantic County | 003722 | City of Pleasantville | Linda Peyton (609)641-8642 | 18 North First Street Pleasantville, NJ 08232 | Municipal Facility/ Regulated UST | RI | YES (AOC BASED) | 3/14/2016 |
| 12 | FORMER COTTRELL FARM | 3910 Old Bridge- Matawan Road | Old Bridge Township, Middlesex County | 596262 | Middlesex County Parks and Recreation | Richard Lear (732)745-5988 | 1030 River Road Piscataway NJ 08854 | Farmland/ Open Space | RA | YES (SITE-WIDE) | 2/12/2016 |
| 13 | 301 WOODLAND AVENUE | 301 Woodland Avenue | Pleasantville City, Atlantic County | 712852 | American Engineering & Science Robotics Academy | Basilyn Bunting (609)287-5690 | 845 New Road, #2 Pleasantville, NJ 08232 | Child Care Center | PA | YES (SITE-WIDE) | 2/10/2016 |
| 14 | MONMOUTH COUNTY RECLAMATION CENTER | 6000 Asbury Avenue | Tinton Falls Borough, Monmouth County | 002496 | Monmouth County Reclamation Center | Richard Throckmorton (732)683-8686 | 6000 Asbury Avenue Tinton Falls, NJ 07753 | County Facility / Regulated UST | SI | YES (AOC BASED) | 12/21/2015 |
| 15 | LAKE RIVIERA PARK | 371 Lake Shore Drive | Brick Township, Ocean County | 695636 | Township of Brick | Joanne Bergin (732) 262-2933 | 401 Chambers Bridge Road Brick, NJ 08723 | Green Acres Park | RI | YES (SITE-WIDE) | 7/2/2015 |
| 16 | HOMESTEAD NURSING HOME | 129 Morris Turnpike | Frankford Township, Sussex County | 023669 | County of Sussex | Joseph Bioso (973) 579-0490 | 1 Spring Street, 3rd Floor Newton, NJ 07860 | Nursing Home / Regulated UST | RA | YES (AOC BASED) | 5/27/2015 |
| 17 | HAZLET - PFLEGER PROPERTY | 225 Middle Road | Hazlet Township, Monmouth County | 574602 | Township of Hazlet | Dennis Pino (732) 264-1700 | 1766 Union Avenue Hazlet, NJ 07730 | Farmland | RI | YES (SITE-WIDE) | 3/6/2015 |
| 18 | MARLBORO TOWNSHIP MUNICIPAL OFFICES | 1979 Township Drive | Marlboro Township, Monmouth County | 006403 | Township of Marlboro | Jonathan Capp (732) 536-0200 | 1979 Township Drive Marlboro, NJ 07746 | Municipal Complex / Spill Act | SI | YES (AOC BASED) | 12/12/2014 |
| 19 | TENNENT ROAD OPEN SPACE | Block 172, Lot 48 Tennent Road | Marlboro Township, Monmouth County | 652851 | Township of Marlboro | Jonathan Capp (732) 536-0200 | 1979 Township Drive Marlboro, NJ 07746 | Vacant Wooded Area | SI | YES (SITE-WIDE) | 8/22/2014 |
| 20 | COUNTRY PARK BALL FIELDS | Masepe Trail | Marlboro Township, Monmouth County | 652858 | Township of Marlboro | Jonathan Capp (732) 536-0200 | 1979 Township Drive Marlboro, NJ 07746 | Recreational Park/Baseball Field | SI | YES (SITE-WIDE) | 8/22/2014 |
| 21 | FORMER WATER TREATMENT PLANT | 752-756 Prospect Avenue | Old Bridge Township, Middlesex County | 579684 | Township of Old Bridge | Michael Roy (732)679-8832 | 15 Throckmorton Lane Old Bridge, NJ 08857 | Former Water Treatment Plant / Industrial / Spill Act | RA | YES (SITE-WIDE) | 4/14/2014 |

RAOs Issued by Behram Turan, P.E., LSRP (License # 591482)

| | Site Name | Address | City | PI Number | Client Name | Client Contact | Client Address | Facility Type | Phase of Remediation | RAO Issued | Date of RAO |
|----|--|--|--|------------|----------------------------------|-----------------------------------|--|--|----------------------|----------------------|-------------|
| 22 | WINSLOW TWP MUNICIPAL COMPLEX | 125 S Rt. 73 | Winslow Township, Camden County | 031196 | Township of Winslow | Joseph Gallagher (609)567-0700 | 125 S. Route 73 Braddock, NJ 08037 | Municipal Complex / Spill Act | RI | YES (AOC BASED) | 2/6/2014 |
| 23 | ADAM GATES & COMPANY | 249 Homestead Road | Hillsborough Township, Somerset County | 620328 | Adam Gates & Company | Abdel Hamid Ramadan (908)829-3386 | 249 Homestead Road Building 5, Unit 2 Hillsborough, NJ 08844 | Industrial/ ISRA | SI | YES (ISRA LEASEHOLD) | 1/15/2014 |
| 24 | 546 JERSEY AVENUE | 546 Jersey Avenue | Jersey City, Union County | G000035146 | 546 Jersey, LLC | Mukhtar Chaudry (201)889-2217 | 18 Chopin Street Jersey City, NJ 07302 | Commercial / Spill Act | SI | YES (RESTRICTED USE) | 1/3/2014 |
| 25 | PENSKA FARM | 60 Harbor Road | Marlboro Township, Monmouth County | 618688 | Township of Marlboro | Jonathan Capp (732) 536-0200 | 1979 Township Drive Marlboro, NJ 07746 | Farmland / Spill Act | RA | YES (SITE-WIDE) | 12/20/2013 |
| 26 | LIVINGSTON POLICE HEADQUARTERS | 333-357 Livingston Avenue | Livingston Township | 004522 | Livingston Township | Michele Meade (973) 535-7973 | 357 South Livingston Avenue Livingston, NJ 07039 | Former Municipal Complex / Historic Fill | RA | YES (AOC BASED) | 12/16/2013 |
| 27 | MILKY WAY EDUCATION CENTER | 366 Clifton Avenue | Clifton, Passaic County | 620079 | Milky Way Education Center, Inc. | Elif Idil (732)476-9520 | 366 Clifton Avenue | Child Care Center | RA | YES (SITE-WIDE) | 12/13/2013 |
| 28 | HAZLET - PFLEGER PROPERTY | 225 Middle Road | Hazlet Township, Monmouth County | 574602 | Township of Hazlet | Dennis Pino (732) 264-1700 | 1766 Union Avenue Hazlet, NJ 07730 | Farmland | RI | YES (AOC BASED) | 12/4/2013 |
| 29 | 300 CEDAR LN (VACANT COMMERCIAL PROPERTY) | 300 Cedar Lane | Hamilton Township, Mercer County | 033775 | Panfili Corporation | Lee Panfili (732)938-3535 | 2022 East McGalliard Ave. Trenton, NJ 08610 | Commercial / Spill Act | RA | YES (SITE-WIDE) | 11/14/2013 |
| 30 | MATCHAPONIX AVENUE AND NORTH STATE HOME RD | Matchaponix Avenue & North State Home Road | Monroe Township, Middlesex County | 476179 | Middlesex County | Thomas Kelso (732) 745-3228 | 75 Bayard Street New Brunswick, NJ 08901 | Residential / Spill Act | RA | YES (SITE-WIDE) | 12/26/2012 |
| 31 | HOMESTEAD NURSING HOME | 129 Morris Turnpike | Frankford Township, Sussex County | 023669 | County of Sussex | Joseph Bioso (973) 579-0490 | 1 Spring Street, 3rd Floor Newton, NJ 07860 | Nursing Home /Regulated UST | RA | YES (AOC BASED) | 12/11/2012 |
| 32 | EVESHAM TWP | 125 Main Street East | Evesham Township, Burlington County | 002567 | Evesham Township | Nancy Jamanow (856)983-2900 | 984 Tuckerton Road Marlton, NJ 08053 | Former Municipal Complex / Regulated UST | RA | YES (SITE-WIDE) | 7/13/2012 |
| 33 | LINCOLN HIGHWAY | Lincoln Highway | Woodbridge Township, Middlesex County | 564912 | Woodbridge Redevelopment Agency | Caroline Ehrlich (732) 634-4500 | 1 Main Street, Woodbridge, NJ 07095 | Open Space / Spill Act | RA | YES (SITE-WIDE) | 12/5/2011 |
| 34 | 19 CLASS PLACE | 19 Class Place | New Brunswick, Middlesex County | 568665 | Felix Rojas | Felix Rojas (732) 896-6613 | 540 Maple Street North Brunswick, NJ 08902 | Residential / Unregulated UST | RA | YES (AOC BASED) | 11/16/2011 |
| 35 | TENNENT ROAD | Tennent Road | Marlboro Township, Monmouth County | 562400 | Township of Marlboro | Jonathan Capp (732) 536-0200 | 1979 Township Drive Marlboro, NJ 07746 | Farmland | SI | YES (SITE-WIDE) | 9/20/2011 |
| 36 | SABELLA PARK | 528 Cozzens Lane | North Brunswick Township, Middlesex County | 529914 | Township of North Brunswick | Lou Ann Benson (732) 247-0922 | 710 Hermann Road North Brunswick, NJ 08902 | Child Care Center | RA | YES (SITE-WIDE) | 7/19/2011 |
| 37 | MOBAY CHEMICAL | 2nd Street E., 50 Ingham Avenue, E. 5th Street | Bayonne City, Hudson County | G000000883 | Muralo Company, Inc. | Ed Norton, III (201) 437-0770 | 50 Ingham Avenue | Industrial/ ISRA | PA/SI | YES (SITE-WIDE) | 6/11/2011 |
| 38 | SHARPLESS FARM | Springside Road and Woodlane Road | Westampton Township, Burlington County | 547409 | Westampton Township | Donna Ryan (609) 267-1891 | 710 Rancocas Road Westampton, NJ 08060 | Farmland | SI | YES (SITE-WIDE) | 12/31/2010 |
| 39 | 240 DAVIDSON'S MILL ROAD | 240 Davidson Mills Road | South Brunswick Township, Middlesex County | 537650 | Pulda Farm | William Pulda (908) 369-4784 | c/o Fred Daniel P.O. Box 9 Neshanic Station, NJ 08853 | Farmland | RA | YES (SITE-WIDE) | 12/21/2010 |

List of Phase I/PA Experience

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase I Environmental Site Assessments (Phase I ESA) / Preliminary Assessments (PA)

| Client | Location | Project Description | Year |
|--------------------------------------|--|--|-----------|
| Borough of Highland Park | Borough of Highland Park, Middlesex County | CME conducted a PA at a mixed use commercial / residential building that is under consideration by the Borough for acquisition. | 2017 |
| Middlesex County | Township of North Brunswick, Middlesex County | CME conducted a PA at a historic farm in North Brunswick Twp that is being considered for preservation. In addition, CME performed a wetlands delineation and Lot Yield Analysis at the Site. | 2017 |
| Middlesex County Utilities Authority | Township of East Brunswick, Middlesex County | CME conducted a PA at an industrial site adjacent to the Middlesex County Landfill that was previously a clay or gravel mining pit. | 2017 |
| Windsor Castle Associates | Township of East Windsor, Mercer County | CME conducted a PA/Phase I ESA as part of due diligence for a residential apartment complex undergoing expansion. | 2017 |
| Jersey City Redevelopment Agency | Jersey City, Hudson County | CME conducted a PA/Phase I ESA of a section of the former Morris Canal, that is under consideration by the JCRA for acquisition and redevelopment into part of a regional greenway. CME also prepared a SIWP and QAPP for submission to the EPA and will perform an SI of the site upon approval. | 2017 |
| City of Pleasantville | City of Pleasantville, Atlantic County | CME conducted a PA of a 5-acre bay front site as part of a due diligence inquiry into property conditions. The City intends to preserve the property as open space through the NJDEP Green Acres Program. | 2017 |
| Township of Winslow | Winslow Township, Camden County | CME conducted a PA of a 37-acre former industrial property that has been the subject of environmental investigations for many years. The Township is considering redevelopment of the property and the PA was conducted as part of a due diligence inquiry into property conditions. | 2017 |
| City of Bayonne | City of Bayonne, Hudson County | CME conducted a PA as part of a due diligence inquiry into property conditions at a 2.1-acre site containing a religious institution, school, and other site improvements under consideration for acquisition by the City. | 2017 |
| Township of Manalapan | Township of Manalapan, Monmouth County | CME conducted a PA and SI of the 179-acre site as part of a due diligence assessment of property conditions related to funding of site improvements. The land was formerly used for farming and currently serves as Township Recreational facilities. | 2016-2017 |
| Township of Marlboro | Township of Marlboro, Monmouth County | CME prepared two (2) PA Reports for two (2) tracts of former farmland totalling 55 acres. The Township plans on preserving one of the tracts through the State of NJ's Farmland Preservation Program, and the other for Green Acres Open Space. | 2016 |
| Bayshore Recycling Corporation | Township of Woodbridge, Middlesex County | CME conducted a PA of a 17.5-acre site containing a former landfill as part of a due diligence inquiry into property conditions. | 2016 |
| County of Ocean | Borough of Tuckerton, Ocean County | The County is considering acquisition of a 0.2-acre commercial property and CME conducted a PA as part of a due diligence inquiry into property conditions. | 2016 |
| County of Essex | Borough of North Caldwell, Township of Verona, Township of Cedar Grove, Essex County | Prepared two (2) PA reports to be submitted to the NJDEP Green Acres Program. One PA was conducted at 284-acre reservation that was formerly the site of a sanitarium and prison. The other PA was conducted on a 56-acre site that was formerly part of a hospital complex and is being developed into a park and community center. | 2016 |
| Township of Marlboro | Township of Marlboro, Monmouth County | Prepared PA Report for a 7.6-acre commercial property containing a diner, motel, commercial building, single family residence, vacant woodlands, and wetlands as part of due diligence inquiry. Township considering acquisition. | 2016 |
| Township of Hillsborough | Township of Hillsborough, Somerset County | Prepared a PA Report for a 65-acre vacant site. | 2016 |
| Ray Catena | Township of Union, Union County | Prepared a PA Report for a commercial property. | 2016 |
| Monmouth County | Township of Hazlet, Monmouth County | Prepared a PA report for a 26-acre site consisting of vacant wetlands. The PA was conducted to assess conditions at the Site in preparation for an infrastructure improvement project. | 2016 |

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase I Environmental Site Assessments (Phase I ESA) / Preliminary Assessments (PA)

| Client | Location | Project Description | Year |
|---|--|---|------|
| Monmouth County | Borough of Englishtown, Monmouth County | Prepared a Transaction Screen Limited Environmental Assessment of a portion of a property in the right-of-way of a roadway improvement project. | 2016 |
| Borough of Sayreville | Borough of Sayreville, Middlesex County | Prepared a PA report for a vacant parcel of land as part of a due diligence inquiry into property conditions. The Site is being considered for an open space acquisition. | 2016 |
| Township of Piscataway | Township of Piscataway, Middlesex County | Prepared a PA report for a vacant parcel of land as part of a due diligence inquiry into property conditions. | 2016 |
| Straight Edge Striping | Borough of Middlesex, Middlesex County | Prepared a PA report of property historically used for light industrial purposes. The PA was conducted as part of a due diligence inquiry into property conditions. | 2016 |
| American Engineering and Science Robotics Academy | City of Pleasantville, Atlantic County | Conducted a PA as part of the application requirements to obtain a child care center license to operate an educational facility at the property. Prior to its current use as a community center, the property was mainly residential. AOCs were identified. | 2015 |
| Township of Manalapan | Manalapan Township, Monmouth County | Conducted a PA of a former fuel depot. Several AOCs were identified related to former site operations and former discharges that occurred at the Site. | 2015 |
| Allied Specialty Foods, LLC. | City of Vineland, Cumberland County | Conducted a Phase I ESA for a vacant industrial property. | 2015 |
| Ray Catena | Toms River, Ocean County | Conducted a PA for a commercial property in a busy commercial corridor in Toms River. Formerly a car dealership and other commercial businesses, several AOCs were identified including multiple related to USTs. | 2015 |
| Ray Catena | Marlboro Township, Monmouth County | Conducted a PA for a property historically used for commercial and industrial purposes, including a gasoline service station and auto maintenance facility. Several AOCs associated with former site uses were identified, including multiple USTs. | 2015 |
| County of Middlesex | Old Bridge, Middlesex County | Conducted a PA for a farmstead historically used for orchards. An SI/RI/RA were also conducted. Contamination associated with historic pesticide use was identified. | 2015 |
| Ray Catena | Freehold Township, Monmouth County | Conducted a PA for a former gasoline service station. Several AOCs related to prior uses were identified. | 2015 |
| Property Owner | City of Plainfield, Union County | Prepared a PA Report for a historically residential property that currently contains an auto shop. Several AOCs were identified related to auto shop operations and other sources with potential for contamination. | 2015 |
| Private Law Firm | Monroe Township, Middlesex County | Prepared a PA & Limited SI Report for a residential property historically used for agricultural purposes. | 2015 |
| Township of Westampton | Westampton Township, Burlington County | Prepared a PA Report to be submitted to the NJDEP Green Acres Program and conducted a limited site investigation for a residential property. | 2015 |
| Township of Delran | Delran Township, Burlington County | Prepared a PA Report to be submitted to the NJDEP Green Acres Program for a property formerly used as a water utility company and currently owned by the Township. | 2015 |
| Township of Marlboro | Marlboro Township, Monmouth County | Prepared a PA Report to be submitted to the NJDEP Green Acres Program and conducted further investigation at a property currently used as a public park to investigate potential contamination associated with historic fill and historic pesticide use. | 2015 |
| Township of Brick | Brick Township, Ocean County | Prepared a PA Report to be submitted to the NJDEP Green Acres program for an operational park and recreational space on the shore of Lake Riviera. | 2015 |

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase I Environmental Site Assessments (Phase I ESA) / Preliminary Assessments (PA)

| Client | Location | Project Description | Year |
|--|---------------------------------------|--|------|
| Private Law Firm | City of Burlington, Burlington County | Prepared a PA Report and conducted an investigation of a property with various historic uses and currently used by the City as public parking and utility easement. | 2014 |
| Ray Catena | Freehold Township, Monmouth County | Prepared a PA Report for a commercial property historically used for agricultural purposes. | 2014 |
| Ray Catena | Toms River, Ocean County | Prepared a PA Report for a commercial property with various uses that contained historical fill contamination and several former USTs. | 2014 |
| Middlesex County Improvement Authority | New Brunswick, Middlesex County | Prepared a PA Report for a historically residential property with potential contamination related to former or current USTs and other sources. | 2014 |
| Middlesex County Improvement Authority | New Brunswick, Middlesex County | Prepared a PA Report for a property that currently contains a parking deck. With various historic uses, including industrial operations, several areas of potential contamination were identified on site. | 2014 |
| Middlesex County Improvement Authority | Woodbridge Township, Middlesex County | Prepared PA Reports for 8 properties with various uses for a Brownfields Development Area (BDA) Grant. | 2014 |
| Middlesex County Improvement Authority | South Brunswick, Middlesex County | Prepared a PA Report and conducted a follow-up SI for an undeveloped woodland property under consideration for open space conservation. | 2014 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA Report for an operational baseball field with potential historic agriculture contamination. | 2014 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA Report for a vacant wooded property with adjacent contaminated sites. | 2014 |
| Township of East Windsor | East Windsor, Mercer County | Prepared a PA Report for a vacant wooded property with potential historic agriculture contamination. | 2014 |
| Township of Irvington | Irvington, Essex County | Prepared a PA Report for an operational public safety building with historic groundwater contamination. | 2014 |
| Church of Latter Day Saints | Newark, Essex County | Prepared a PA Report for construction of a church on a Site contaminated with historic fill contamination | 2014 |
| Borough of Carteret | Carteret, Middlesex County | Prepared a PA Report for a site which was used for storage during Hurricane Sandy. | 2013 |
| Borough of Carteret | Carteret, Middlesex County | Prepared a PA Report for a historically used for residential and manufacturing purposes; currently vacant. | 2013 |
| Milky Way Education Center | City of Clifton, Passaic County | Prepared a PA Report for a child-care center and conducted all necessary remediation up to the issuance of an RAO. | 2013 |
| Ray Catena | Freehold Township, Monmouth County | Prepared a PA Report for a commercial property. | 2013 |
| Panfili Corporation | Hamilton Township, Mercer County | Prepared a PA Report for a vacant property and conducted all necessary remediation up to the issuance of an RAO. | 2013 |
| Middlesex County Improvement Authority | Monroe, Middlesex County | Prepared a PA for a residential community. | 2013 |
| Old Bridge Municipal Utilities Authority | Old Bridge, Middlesex County | Conducted a PA for abandoned water treatment plants. | 2013 |

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase I Environmental Site Assessments (Phase I ESA) / Preliminary Assessments (PA)

| Client | Location | Project Description | Year |
|---------------------------------------|--|--|------|
| Borough of South River | South River, Middlesex County | Performed a PA for an automotive repair shop with car storage. | 2013 |
| Township of Stafford | Stafford Township, Ocean County | Prepared a PA Report for a vacant property to be submitted to the NJDEP Green Acres Program. | 2013 |
| Township of Stafford | Stafford Township, Ocean County | Prepared a PA for four lots making up a public park and athletic field. | 2013 |
| Township of Bloomfield | Bloomfield, Essex County | Prepared a Phase I ESA for a Fire Station facility. | 2012 |
| Borough of Milltown | Borough of Milltown, Middlesex County | Prepared a PA Report for a vacant property formerly used for industrial operations. | 2012 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA and Limited SI for a former farm property to be submitted to Green Acres | 2012 |
| Munoz Trucking Corporation | North Arlington, Bergen County | Performed a Phase I ESA and prepared a Site Investigation Report | 2012 |
| Former Exxon Gas Stations in NJ | Seven Different Locations in NJ: Township of Morris, Rockaway, North Caldwell, Andover, Parsippany, Denville, Town of Morris | Prepared a total of seven (7) Phase I Environmental Reports for former Exxon Gas Stations. | 2012 |
| Borough of South River | South River, Middlesex County | Performed a PA for a Knights of Columbus Hall and vacant apartment building. | 2012 |
| New Jersey Institute for Disabilities | Woodbridge, Middlesex County | Performed a PA for a property formerly used as a gas station and commercial building. | 2012 |
| Township of Aberdeen | Aberdeen, Monmouth County | Performed a PA for a vacant property recently used as farmland. | 2011 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA and Limited SI for a vacant lot formerly used as farmland | 2011 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA Report for a former farm with vacant buildings onsite | 2011 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA Report for a residential property with various sheds, trailers and storage on the site. | 2011 |
| Center for Family Services | Woolwich, Gloucester County | Conducted a Phase I ESA for a vacant lot formerly used as farmland | 2011 |
| Borough of Milltown | Borough of Milltown, Middlesex County | Prepared a Phase I ESA for a fire house and residential property | 2010 |
| Gloucester County | Deptford, Gloucester County | Performed a Phase I ESA for a 2.5-acre property formerly used as farmland and currently a shopping center. | 2010 |
| Township of Manalapan | Manalapan, Monmouth County | Prepared a PA Report for a vacant property formerly used as a farm. | 2010 |

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase I Environmental Site Assessments (Phase I ESA) / Preliminary Assessments (PA)

| Client | Location | Project Description | Year |
|--|------------------------------------|--|-----------|
| Middlesex County Improvement Authority | Monroe, Middlesex County | Prepared a PA for a vacant property formerly used as farmland. | 2010 |
| Township of Westampton | Westampton, Burlington County | Conducted a PA for a vacant property which consisted of forested uplands and wetlands. | 2010 |
| Township of Westampton | Westampton, Burlington County | Performed a PA for vacant lots historically used for agriculture and within historic and archaeological zones. | 2010 |
| Township of Woodbridge | Woodbridge, Middlesex County | Performed a PA for a 100.7-acre lot containing a golf course and country club. | 2010 |
| Township of Hazlet | Hazlet Township, Monmouth County | Prepared a PA Report for a vacant property and conducted all necessary remediation up to the issuance of an RAO. | 2009 |
| Private Developer | Hillsborough, Somerset County | Performed a Phase I ESA for a property that included a Research facility, office buildings, and farmland. | 2009 |
| Township of Manalapan | Manalapan, Monmouth County | Prepared a PA Report for a property that included a single-family residence and undeveloped forested wetlands. | 2009 |
| Township of Manalapan | Manalapan, Monmouth County | Conducted a PA and SI for a property consisting mainly of a 22-acre lake. | 2009 |
| Township of Marlboro | Marlboro, Monmouth County | Prepared a PA Report for a property with 14 buildings, including a former correctional facility and dairy farm, and an active potable water treatment plant. | 2009 |
| Middlesex County Improvement Authority | Old Bridge, Middlesex County | Conducted a PA and SI for a wooded property that formerly contained a residence and farmland with various farm buildings. | 2009 |
| Township of Old Bridge Housing Authority | Old Bridge, Middlesex County | Conducted a PA of a 27-acre wooded property proposed for redevelopment. | 2009 |
| Middlesex County Improvement Authority | South Brunswick, Middlesex County | Conducted a PA and SI for a residential/agricultural property. | 2009 |
| Township of Stafford | Stafford Township, Ocean County | Prepared a Phase I ESA for a property located in the Pinelands, which included several artificial lakes and a recreational area. | 2009 |
| Middlesex County Improvement Authority | South Plainfield, Middlesex County | Performed a PA/SI for a residential/agricultural property. | 2008/2009 |
| Middlesex County Improvement Authority | South Plainfield, Middlesex County | Performed a PA for a former residential/agricultural property for open space acquisition. | 2008/2009 |
| Middlesex County Improvement Authority | Woodbridge, Middlesex County | Performed a PA/SI/RA for a site with surficial PAH contamination. | 2008/2009 |
| Township of Aberdeen | Aberdeen, Monmouth County | Performed a PA/SI for a former beachfront recreation area under the Green Acres Program. | 2008 |
| New Jersey Meadowlands Commission | East Rutherford, Bergen County | Conducted a Phase I ESA for a wetland property. | 2008 |

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase I Environmental Site Assessments (Phase I ESA) / Preliminary Assessments (PA)

| Client | Location | Project Description | Year |
|---|------------------------------------|--|-----------|
| Middlesex County Improvement Authority | Edison Township, Middlesex County | Performed PA's for two wooded properties for open space acquisition. | 2008 |
| Ascendere, Inc. | Franklin Township, Somerset County | Prepared a PA/SI Report for a proposed Child Care Facility. | 2008 |
| EVEREST Production Corp. | Franklin Township, Somerset County | Performed a Phase I ESA for a light industrial facility. | 2008 |
| Township of Hazlet | Holmdel Township, Monmouth County | Performed a PA for a lot formerly used as farmland. | 2008 |
| Township of Livingston | Livingston, Essex County | Performed a PA and soil and groundwater investigations for construction activities at the Municipal Building site. | 2008 |
| CNJ Company, LLC. | Monroe, Middlesex County | Conducted a PA, SI, RI, and RA for a former agricultural property. | 2008 |
| Township of North Brunswick | North Brunswick, Middlesex County | Performed a PA/SI for a former agricultural site. | 2008 |
| City of Plainfield | Plainfield, Union County | Conducted a PA/SI/RI for a former gas station, retail store, and residential property under an HDSRF Grant | 2008 |
| City of Plainfield | Plainfield, Union County | Prepared a PA Report and RI-RAW for a former drycleaner site under an EPA Grant. | 2008 |
| Borough of Seaside Park | Seaside Park | Prepared a PA Report for a Green Acres site that consisted of a road right-of-way. | 2008 |
| Middlesex County Improvement Authority | South Brunswick, Middlesex County | Conducted a PA for a wooded property historically used for timber harvesting. | 2008 |
| Meadowlands Conservation Trust | Teaneck, Bergen County | Conducted a Phase I ESA for a historical site for conservation purposes. | 2008 |
| Woodbridge Township Board of Fire Commissioners | Woodbridge, Middlesex County | Performed a PA for a property historically used as a boarding house/tavern. | 2008 |
| Township of Aberdeen | Aberdeen, Monmouth County | Performed a PA/SI for a former water treatment plant under an HDSRF Grant. | 2007/2008 |
| Middlesex County Improvement Authority | Woodbridge, Middlesex County | Performed PA's for three vacant properties for open space acquisition. | 2007/2008 |
| Middlesex County Improvement Authority | Monroe, Middlesex County | Conducted a Phase I ESA for two wooded properties historically used as farmland. | 2007 |
| NK Architects | Old Bridge, Middlesex County | Performed a PA for a 39-acre wooded property with several dilapidated structures on the site. | 2007 |
| Woodbridge Township Board of Fire Commissioners | Woodbridge, Middlesex County | Performed a PA for a property owned by the Board of Fire Commissioners. | 2007 |
| New Jersey Meadowlands Commission | Carlstadt/Moonachie, Bergen County | Performed a Phase I ESA for three vacant properties, with a follow-up SI for two of the properties, including an investigation of historic fill and surface water contamination. | 2006/2007 |

List of Phase II/SI Experience

CME ASSOCIATES

EXPERIENCE ON SELECT SIMILAR PROJECTS

Phase II Environmental Site Assessments (Phase II ESA) / Site Investigations

| Client | Location | Project Description | Year |
|--|-----------------------------|--|------|
| Township of Winslow | Winslow, New Jersey | Conducted a Phase II - Site Investigation for a municipal complex with possible contamination from a former UST | 2014 |
| Old Bridge Municipal Utilities Authority | Old Bridge, New Jersey | Conducted a Phase II - Site Investigation for a former wastewater treatment plant | 2014 |
| Old Bridge Municipal Utilities Authority | Old Bridge, New Jersey | Conducted a Phase II - Site Investigation for a former water supply pumping station | 2014 |
| Milky Way Education Center, Inc. | Clifton, New Jersey | Conducted a Phase II - Site Investigation for a childcare facility with PAH and metals contamination | 2013 |
| Township of Marlboro | Marlboro, New Jersey | Conducted a Phase II - Site Investigation for a vacant site formerly used for agricultural purposes | 2013 |
| Borough of South River | South River, New Jersey | Conducted a Phase II - Site Investigation for a former event hall and former brick yard to be redeveloped into a firehouse | 2013 |
| Munoz Trucking Corporation | North Arlington, New Jersey | Conducted a Phase II - Site Investigation for a trucking facility | 2012 |
| Township of Marlboro | Marlboro, New Jersey | Conducted a Phase II - Limited Site Investigation for a vacant site formerly used for farm fields and orchards | 2011 |
| Middlesex County Improvement Authority | South Brunswick, New Jersey | Conducted a Phase II - Site Investigation for a former agricultural site containing aboveground storage tanks and an underground storage tank | 2010 |
| Township of Westampton | Westampton, New Jersey | Conducted a Phase II - Site Investigation for a former agricultural site | 2010 |
| Township of Hazlet | Hazlet, New Jersey | Conducted a Phase II - Site Investigation for a vacant property historically used for farming operations and containing soil mounds | 2010 |
| Middlesex County Improvement Authority | Old Bridge, New Jersey | Conducted a Phase II - Site Investigation for a vacant former agricultural site containing historic structures and monitoring wells | 2010 |
| Township of Woodbridge | Woodbridge, New Jersey | Conducted a Phase II - Site Investigation for an undeveloped property with debris piles and possible groundwater / surface water contamination | 2009 |
| NJ Turnpike Authority | Woodbridge, New Jersey | Conducted a Phase II - Site Investigation for a NJTA construction project | 2006 |
| Township of Aberdeen | Aberdeen, New Jersey | Conducted a Phase II - Site Investigation for a former wastewater treatment plant | 2006 |
| J.G. Petrucci CO., Inc. | Edison, New Jersey | Conducted a Phase II - Site Investigation for a former landfill | 2006 |

**LSRP Relevant Experience
& References**



RELEVANT LSRP EXPERIENCE & REFERENCES

PROJECT #1

MONMOUTH COUNTY 2016 ON-CALL PROFESSIONAL ENGINEERING SERVICES RELATED TO AST AND UST SERVICES FOR VARIOUS MONMOUTH COUNTY FACILITIES

| | |
|------------------|--|
| Contact: | Ms. Casey Hornstra, PG, Environmental Specialist 2 |
| Client: | Monmouth County |
| Tel: | (732)431-7760 ext. 8992 |
| Duration: | April 2016 – Present |



CME performed On-Call Professional Environmental Engineering Services Related to AST and UST Services for Various Monmouth County Facilities for the period from April 1, 2016 through March 21, 2017. As part of the contract, CME completed the following tasks: (1) quarterly inspections of approximately eighteen (18) USTs and ASTs at various County facilities; (2) preparation of the design and technical specifications, and construction oversight for installation of a high-speed pump dispenser at Highway District #9; (3) closure of one (1) 1000-gallon Waste Oil UST (E-4) at the Monmouth County Reclamation Center; and, (4) preparation of a Spill Prevention Control and Countermeasure (SPCC) Plan for the Maintenance Building at MCRC, and updating the SPCC Plan for District #9 including the Wash Building Facility.

In January 2017, CME Associates performed a Site Investigation of a 1,000-gallon waste oil UST (Tank No. 00E4) at the Monmouth County Reclamation Center. Four (4) temporary soil borings were advanced via geoprobe to a total depth of fifteen (15) feet below ground surface on each side of the UST and one (1) soil sample was collected from each of the borings. The samples were analyzed for total extractable petroleum hydrocarbons (EPH). Results indicated soils at the boring locations were not impacted above applicable soil remediation standards, and there was not evidence of a discharge. However, soil environmental conditions are to be further evaluated upon removal of the UST.

In July/August 2016, and again in December 2016/ January 2017, CME Associates, with assistance from Accurate Tank Testing, LLC., completed quarterly inspection services for ASTs and USTs at eleven (11) Monmouth County locations. Following the inspections, CME prepared and submitted Quarterly Inspection Reports to the County.

In addition, as part of a contract for 2014 On-Call Environmental Engineering Services in support of the operation of the Monmouth County Reclamation Center facilities, CME previously performed a site investigation related to a former 1,000-gallon UST (E-5) at the Monmouth County Reclamation Center. No further investigation was recommended and CME issued RAO for the tank closure in December 2015.



PROJECT #2

REMEDIAL SERVICES AT THE SOUTH RIVER FIREHOUSE REDEVELOPMENT SITE, BOROUGH OF SOUTH RIVER, MIDDLESEX CO., NEW JERSEY (NJDEP PI NO. 021019)

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|------------------|---------------------------------------|
| Contact: | Frederick Carr, Borough Administrator |
| Client: | Borough of South River |
| Tel: | (732) 451-3800 |
| Duration: | 2013 – Present |



On behalf of the Borough of South River, CME Associates has been performing remedial activities at the South River Firehouse Redevelopment Site. The Site was most recently operated by the Knights of Columbus as a tavern, meeting and banquet hall, offices, and a boxing club. The Borough of South River plans to construct a new firehouse facility on the site. Previous site uses included operations of various fueling stations with many unregistered and registered USTs as well as the use of mechanics shops. CME Associates performed a Preliminary Assessment (PA) in 2013 and identified eight (8) AOCs on the site. CME completed a Site Investigation (SI) of the identified areas of concern between September 2013 and July 2014. Lead and benzene exceedances related to the release from USTs were identified during the Site Investigation.

CME conducted an extensive Remedial Investigation at the Site. Remedial investigation activities identified concentrations of Benzene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Chlorobenzene, EPH, Ethylbenzene, 2-methylnaphthalene, Toluene, and Total Xylenes in soil at the Site above applicable remediation standards and screening levels. Groundwater sampling at the site determined the groundwater is contaminated with Benzene, Ethylbenzene, 2-methylnaphthalene, MTBE, TBA, toluene and Total Xylenes above the GWQS. Based on a review of groundwater sampling results, concentrations of benzene, ethylbenzene, and naphthalene exceeded NJDEP Vapor Intrusion Screening Levels. CME performed a soil gas investigation at the Site in the proposed building footprint. The Site is currently vacant with no buildings or structures present, but a municipal firehouse is scheduled to be constructed on the property. CME determined a sub-slab ventilation system should be installed under the new structure.

Remedial actions thus far have included:

- Removal of six (6) former regulated USTs (AOCs 1A, 1C, 1E) between April 2015 – January 2016
- Excavation of contaminated soil related to former USTs
- Removal of two (2) ASTs (AOC-2A and 2B)
- Contaminated soil excavation in Storage and Staging Area (AOC-4) took place in May 2015.
- Two (2) sump pits (AOC-5) demolished with building in 2015. No evidence of contamination indicated.
- Workshop area (AOC-6) demolished. Sampling of concrete floor was conducted. No contamination was identified.

CME submitted the Remedial Investigation Report to the NJDEP on March 1, 2017 and is currently preparing the Remedial Action Report. CME submitted a HDSRF application to the NJDEP in January 2016 for a grant in the amount of \$247,692.09 for the costs of the completed PA, SI, RI, and is currently in the process of preparing an HDSRF application to recoup 25% of the costs of the remedial action, approximately an additional \$180,000.



PROJECT #3

LSRP SERVICES AT THE LENAPE PARK TRAP AND SKEET, TOWNSHIP OF CRANFORD, UNION CO., NEW JERSEY (NJDEP PI NO. G000022693)

| | |
|------------------|-------------------------------|
| Contact: | Thomas Mineo, County Engineer |
| Client: | County of Union |
| Tel: | (908)789-3653 |
| Duration: | 2013 – Present |



CME Associates performed a remedial investigation at the Lenape Park Trap and Skeet between October 2014 and May 2016. Historically, a trap and skeet facility operated at the site from circa 1925 to 2005, and a small arms target range operated from the late 1920s to 1979. Soils in the area of the former shooting ranges are contaminated with metals (primarily lead, arsenic, and antimony) and PAH semi-volatile compounds at concentrations above applicable remediation standards. The contamination appears to locally impact shallow groundwater, and also impacts sediment and surface water in the Nomahegan Brook and Rahway River. CME obtained a Freshwater Wetlands General

Permit #14 in order to install groundwater monitoring wells and investigate the groundwater contamination. The extent of contamination is delineated and the remedial investigation has been completed. CME submitted a Remedial Investigation Report, including CEA proposal, to the NJDEP in May 2016.

CME is currently in the process of conducting feasibility studies for potential remedial actions and preparing a Remedial Action Workplan. Monitoring is being conducted to evaluate seasonal conditions in groundwater and surface water quality in the areas of concern. The water data will be used to design an appropriate remedial action and as a baseline for post-remedial verification samples. Additionally, further evaluation is proposed to establish site-specific cleanup goals based on ecological receptors. Most of the contaminated areas of concern at the site impact environmentally sensitive natural resources including wetlands, riparian zones, and streams. Therefore, cleanup of the contamination will be largely driven by ecological considerations. The findings of previous ecological studies at the site indicate that metals concentrations in the stream sediments and wetland soils pose a potential risk to wildlife. Additional ecological assessment, including additional tissue sampling if needed, will be conducted to further quantify the risk associated with the site contamination and derive site-specific ecological remediation criteria





PROJECT #4

CLOSURE & INVESTIGATION OF FOUR (4) USTS AT HISTORIC SMITHVILLE PARK, EASTAMPTON TOWNSHIP, BURLINGTON CO., NEW JERSEY (NJDEP PI NO. 704149)

| | |
|------------------|---|
| Contact: | Matthew Johnson, P.P., A.I.C.P. |
| Client: | Burlington County Department of Resource Conservation |
| Tel: | (856)642-3850 |
| Duration: | 2015 – Present |

CME was retained to preside over the closure and investigation of four Underground Storage Tanks (USTs) (T-1, T-2, T-3, and T-4) at the Historic Smithville Park property, as follows:

UST T-3, Former School House: Behram Turan, P.E., LSRP was retained as the LSRP-of-record for Historic Smithville Park (PI No. 704149) in September 2015 to oversee the remediation of UST T-3. A discharge (NJDEP Case No. 13-04-09-1700-46) was reported in April 2013 following removal of a former 550-gallon No. 2 heating oil UST, identified as tank T-3. In March 2014, a limited site investigation was conducted by others. The UST was previously situated adjacently south of the School House building. CME prepared a Health and Safety Plan (HASP) and Quality Assurance Project Plan (QAPP) for the Site, prepared and submitted a UST Registration and Closure Approval, performed UST closure sampling and backfill soil quality testing, conducted a Remedial Investigation of Soil, Groundwater, and Vapor Intrusion including installation of monitoring wells, conducted Enhanced Fluid Recovery (EFR), and submitted a Site Investigation / Remedial Investigation Report including a CEA proposal in April 2017.

UST T-1, One Park Avenue: CME decommissioned a 550-gallon No. 2 Heating Oil UST at this location in August 2016. CME collected five (5) post-excavation soil samples. Targeted parameters were not detected during the initial investigation. No further action was recommended for this former UST. The closure of this UST has been documented in the April 2017 UST Closures and Site Investigation Report prepared by CME.

UST T-2, 802 Smithville Road: CME decommissioned the 1,000-gallon No. 2 Heating Oil UST (T-2) in August 2016. CME collected six (6) sidewall and two (2) centerline post-excavation soil samples (T-2A through T-2G) from a depth of 6.5-7.0 ft bgs. Total EPH was detected in three (3) post-excavation soil samples at concentrations which exceed the Residential SRC (5,100 mg/kg), but do not exceed the Non-Residential SRC (54,000 mg/kg). The total EPH concentrations detected in samples T-2D (12,000 mg/kg) and T-2H (11,000 mg/kg) also exceed the residual/free product determination trigger concentration (8,000 mg/kg) for No. 2 heating oil/diesel fuel. 2-methylnaphthalene was detected at a concentration which exceeds the IGWSSL, but does not exceed the SRS. The NJDEP was notified of the UST discharge and incident no. 16-08-23-1537-39 was assigned to the Site. A Remedial Action Workplan (RAW) was recommended. The closure of this UST has been documented in the April 2017 UST Closures and Site Investigation Report prepared by CME.



UST T-4, 815 Smithville Road: CME decommissioned a 1,000-gallon No. 2 heating oil UST (UST T-4) at this location in August 2016. CME collected eight (8) post-excavation soil samples (Total EPH was detected in two (2) post-excavation soil samples at concentrations which do not exceed the SRC for No. 2 heating oil or the contingent analyses trigger concentration. No further action was recommended for this UST. The closure of this UST has been documented in the April 2017 UST Closures and Site Investigation Report prepared by CME.



PROJECT #5

FORMER SOUTH RIVER METAL PRODUCTS BROWNFIELD REDEVELOPMENT SITE, ABERDEEN, MONMOUTH COUNTY, NEW JERSEY (NJDEP PI. G00008373)

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| Contact: | Holly Reycraft, Township Manager |
| Client: | Township of Aberdeen |
| Tel: | (732)583-4200 ext. 117 |
| Duration: | 2006 – Present |

On behalf of Aberdeen Township, CME Associates conducted a Site Investigation, Remedial Investigation, prepared a Remedial Action Workplan, and is overseeing remediation for redevelopment of an abandoned industrial site. The site has been the subject of several environmental investigations since at least the mid-1990s. Remedial activities were originally conducted under NJDEP direct oversight.



- As part of the remedial investigation, a total of 48 areas of concern (AOCs) on the site were evaluated. Soil contamination above the soil remediation standards was identified in 34 AOCs, including petroleum hydrocarbons, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) including polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and various metals. Groundwater contamination exceeding Groundwater Quality Standards (GWQS) is present in several areas of the site. The main contaminants of concern include VOCs (benzene and PCE) and nickel. CME issued a Remedial Investigation Report in December 2014.
- CME issued a Remedial Action Work Plan in December 2014 and RAWP Addendum in November 2015. Design of the RAW was coordinated with a specific site development plan for multi-unit residential buildings. A restricted use remedial action is being implemented that includes a combination of hotspot soil removal, capping, and institutional controls. A CEA was established for contaminated groundwater at the site.
- The remedial action is being conducted via joint coordination between the Township and a private developer. CME Associates is coordinating the site remediation and is providing LSRP oversight of field activities. The remedial activities include the removal of several abandoned USTs and industrial piping, removal of debris and contaminated concrete, excavation of contaminated soil hotspots, verification soil sampling, and other activities.

In support of a proposed Brownfield redevelopment, CME Associates prepared a Hazardous Discharge Site Remediation Fund (HDSRF) Application and obtained \$693,800 for the Remedial Investigation. An additional \$2,315,930 was approved to help finance the remedial action. The remedial action funding is based on a matching HDSRF grant with the developer and the Township contributing 25 to 50% of the total remedial costs.



PROJECT #6

REMEDIAL INVESTIGATION, LAYTON MAINTENANCE GARAGE, LAYTON, SUSSEX CO., NEW JERSEY (NJDEP PI NO. 023669)

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| Contact: | Joseph Biuso, Director, Facilities Management |
| Client: | Sussex County |
| Tel: | (973)579-0490 |
| Duration: | April 2012- December 2012 |



On behalf of Sussex County, CME Associates provided LSRP services and conducted a remedial investigation at the Layton Road Maintenance Garage between 2011 and 2016. Soil and groundwater at the site were impacted by discharges from former gasoline and diesel USTs. The remedial investigation included soil and groundwater sampling to delineate the extent of contamination and evaluate potential migration pathways and receptors.

The occurrence of LNAPL in the area of the former USTs was evaluated. Sampling and regular monitoring was used to delineate the horizontal and vertical extent of residual and mobile LNAPL, identify seasonal trends, and correlate the occurrence of free product in monitoring wells to site water levels. The LNAPL body was shown to contract and expand as groundwater levels rise and lower, but generally remain stable (non-migrating). Interim remedial measures including a product skimmer and Enhanced Fluid Recovery (EFR) were employed.

Soils in the area of the former USTs are contaminated with BTEX, petroleum hydrocarbons (EPH), naphthalene, and 2-methylnaphthalene at concentrations above direct contact and/or impact to groundwater screening levels. The horizontal and vertical extent of soil contamination was delineated to the applicable remediation standards.

Groundwater investigations targeted three general water bearing zones: an upper (shallow) unconfined zone occurring in till overburden and the upper highly weathered portion of the red sandstone bedrock, an intermediate zone in poorly competent red sandstone, and a lower zone in deeper more competent red sandstone and gray siltstone. A total of 26 monitoring wells are installed at the site, including wells in each of the three water bearing zones. Nine (9) additional monitoring wells were installed at the site, including 4 bedrock wells situated to intercept specific fractures. Eight (8) groundwater sampling events were conducted between Jan 2012 and Nov 2015. The horizontal and vertical extent of groundwater contamination was delineated. Benzene is the main contaminant of concern, and the contamination is most widespread in the upper water bearing zone. Long-term monitoring results show that the plume is stable and is not migrating under the current site conditions. Groundwater contaminant levels have significantly declined over time at several monitoring locations, suggesting that natural attenuation processes are active and offset the continued contaminant mass loading in the LNAPL source area. In addition, the groundwater contamination historically impacted the onsite potable well, and water at the facility is treated using a POET system consisting of activated carbon filters. Raw and treated water was sampled on a regular basis to verify the efficacy of the POET system, and annual operation and maintenance reports were submitted to the NJDEP pursuant to IEC case requirements. A Remedial Investigation Report, including CEA Proposal, was prepared and submitted to the NJDEP in April 2016.





PROJECT #7

LSRP SERVICES, FORMER COTTRELL FARM, OLD BRIDGE, MIDDLESEX COUNTY, NEW JERSEY (NJDEP PI NO. 596292)

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| Contact: | Richard Lear, Director of Parks & Recreation |
| Client: | Middlesex County Parks & Recreation |
| Tel: | (732)745-5988 |
| Duration: | May 2014 – February 2016 |

CME Associates conducted a Preliminary Assessment, Site Investigation, Remedial Investigation and Remedial Action at the Former Cottrell Farm in Old Bridge Township between May 2014 and February 2016. Historically, the property has been used for agricultural and residential purposes since prior to 1841 and the County planned on preserving the property for agricultural use, passive open space, and government office space through the NJ Green Acres Program.

Previous investigations conducted by others identified five (5) Areas of Concern (AOCs) at the Site and CME's 2015 Preliminary Assessment identified five (5) additional AOCs, as follows:

- AOC #1: Lot 34 Farm Field/Orchard
- AOC #2: Lot 18 Orchard
- AOC #3: Lot 18 Forested Wetland
- AOC #4: Former Garage USTs
- AOC #5: Former House UST
- AOC #6: Existing Heating Oil AST
- AOC #7: Septic System and Leach Field
- AOC #8: Basement Sumps
- AOC #9: Generator in Garage
- AOC #10: Hazardous Materials Storage

Based on previous investigations conducted at the Site, CME recommended remedial actions be conducted to address contamination identified at AOC #1 and AOC #2; a Site Investigation/Remedial Investigation (SI/RI) was recommended for AOC #7 and AOC #9. CME's PAR recommended no further investigation for AOC #3, AOC #4, AOC #5, AOC #6, AOC #8 and AOC #10. Remediation of the former underground storage tanks (USTs) at the Site (AOC #4 & AOC #5) were previously completed by others.

A SI/RI, including a geophysical survey and soil borings, was conducted at AOC #7 and AOC #9 to evaluate potential contaminants of concern at these AOCs. Based on the analytical results, no further investigation was required for AOC #7 and AOC #9.

Remedial actions conducted at AOC #1 consisted of in-situ soil blending, and soil excavation and off-site disposal. Remedial actions conducted at AOC #2 consisted of soil excavation and off-site disposal. Based on the analytical results, soil contamination has been remediated to the applicable standards and no further action was recommended for AOC #1 and AOC #2. CME issued an unrestricted use Response Action Outcome (RAO) for the entire site in February 2016.





PROJECT #8

REMEDIAL INVESTIGATION, HAZLET TOWNSHIP POLICE DEPARTMENT, HAZLET, MONMOUTH COUNTY, NEW JERSEY (NJDEP PI NO. 030725)

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| Contact: | Dennis Pino, Township Administrator |
| Client: | Township of Hazlet |
| Tel: | (732)264-1700 ext. 8682 |
| Duration: | 2013 – Present |



On behalf of the Township of Hazlet, CME Associates conducted a Remedial Investigation at the Hazlet Township Police Department site in Hazlet, New Jersey. An underground storage tank (UST) was removed from the site in 1999 and a discharge was reported to the NJDEP. Several environmental investigations took place between 1999 and 2005. VOC impacts to soil and groundwater were identified by others but the extent of contamination related to the former UST was not fully delineated.

The project included investigation of four (4) areas of concern related to the former UST: AOC-1: Former 550-gallon gasoline UST; AOC-2: Groundwater Media; AOC-3: Surface Water Media; and AOC-4: Indoor Air. As part of the remedial investigation, CME Associates performed the following activities:

- CME delineated VOC impacts in soil and groundwater. On July 31, 2015 and on September 22, 2015, CME advanced a total of 22 temporary borings/wells and collected thirteen (13) soil samples and nineteen (19) groundwater samples. In addition, monitoring wells MW-10, MW-11, MW-12 and MW-13 were installed by CME in February 2016. CME collected three (3) rounds of groundwater samples from the on-Site monitoring wells in June 2015, March 2016 and April 15, 2016. No LNAPL was detected. The extent of benzene, MTBE, TBA and VO-TICs impacts in soil and groundwater was delineated. CME determined the groundwater plume associated with benzene, MTBE and VO-TICs is contracting and concentrations are naturally attenuating.
- To investigate potential impacts to surface water in Flat Creek running through the Site, CME on July 31, 2015, collected five (5) surface water samples. Trace concentrations of MTBE were detected but did not exceed the applicable surface water screening criteria.
- In June 2014, to investigate potential VOC vapor intrusion impacts, two (2) sub-slab soil gas samples were collected by CME inside the building in the vicinity of the former 550-gallon gasoline UST. The sub-slab soil gas analytical results did not indicate the presence of the targeted analytes at concentrations exceeding the applicable Soil Gas Screening Levels.



CME Associates prepared and submitted a Remedial Investigation Report including a CEA Proposal in May 2016 and is currently preparing a Remedial Action Workplan.



PROJECT #9

REMEDIAL INVESTIGATION, PRINCETON MEADOWS GOLF COURSE, PLAINSBORO, MIDDLESEX COUNTY, NEW JERSEY (NJDEP PI NO. 000712)

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| Contact: | Ralph Albanir |
| Client: | Middlesex County Improvement Authority |
| Tel: | (609)655-5141 |
| Duration: | February 2012 - Present |

On behalf of Middlesex County Improvement Authority (MCIA), CME Associates has been providing LSRP services related to the Princeton Meadows Golf Course site located at 70 Hunters Glenn Drive, Plainsboro, Middlesex County, New Jersey. In 1992 and 1994, five (5) underground storage tanks were removed from the maintenance building area at the golf course. Free product was observed in the UST excavation and a discharge from one or more tanks was reported. A limited remediation to recover some free product was performed in 1996-1997, and various soil and groundwater investigations were conducted to evaluate the extent of contamination. Shallow groundwater at the site is contaminated with benzene and other gasoline constituents, and the contaminant plume extends offsite onto an adjacent condominium complex.



In 1992 and 1994, five (5) underground storage tanks were removed from the maintenance building area at the golf course. Free product was observed in the UST excavation and a discharge from one or more tanks was reported. A limited remediation to recover some free product was performed in 1996-1997, and various soil and groundwater investigations were conducted to evaluate the extent of contamination. Shallow groundwater at the site is contaminated with benzene and other gasoline constituents, and the contaminant plume extends offsite onto an adjacent condominium complex. A Remedial Investigation Report Addendum (April 2002) and a Remedial Action Workplan (June 2004) were submitted to the NJDEP for review and comment. The NJDEP issued a Notice of Deficiency (NOD) on April 6, 2011, and cited various corrective actions that the MCIA must complete within specified timeframes in order to comply with applicable regulations. The required corrective actions include implementation of an interim remedial action to address remaining free product.



Remedial activities at the site are proceeding under the direction of Behram Turan, P.E., LSRP. CME Associates conducted a Remedial Investigation at the Site between 2012 and 2016 consisting of a soil investigation, on-site and off-site groundwater investigation, off-site vapor intrusion investigation, and LNAPL delineation. CME prepared and submitted a Remedial Investigation Report, including a CEA Proposal, in May 2016. CME is currently assessing potential remedial action feasibility studies and preparing a Remedial Action Workplan.



PROJECT #10

REMEDIAL INVESTIGATION, FORMER MIDDLESEX COUNTY ADMINISTRATION BUILDING, NEW BRUNSWICK, MIDDLESEX CO., NEW JERSEY (NJDEP PI NO. 012725)

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| Contact: | Joseph Valdes, Senior Engineer |
| Client: | Middlesex County |
| Tel: | (732) 745-7253 |
| Duration: | August 2015 - Present |

Chemical constituents associated with two (2) former 20,000-gallon heating oil underground storage tanks are present in the groundwater at the Site, including, but not limited to, 2-Methylnaphthalene, 1-Methylnaphthalene, Volatile Organic Compound (VOC) Tentatively Identified Compounds (TICs) and Semi Volatile Organic Compound (SVOC) TICs. Contaminants were initially detected in the soil and/or groundwater in 1989. The contamination in the groundwater has migrated off-site. In addition, Light Non-Aqueous Phase Liquid (LNAPL) accumulation is also reported off-site.



The County of Middlesex is conducting remedial activities in accordance with the requirements of the NJDEP to address the LNAPL and the chemical constituents detected in groundwater. Between February and April 2016, extensive subsurface investigations were conducted by CME, including the installation of soil borings, temporary well points, and test pits along Paterson Street, within the Surface Lot portion of the Ferren Deck property, and along Church Street and Spring Street.

A Remedial Investigation Report (RIR) was submitted to the NJDEP on May 16, 2016. The RIR documents the investigative methods and findings and presents recommendations for remediation of each contaminated AOC. In addition, an Interim Remedial Measures (IRM) Report and the associated LNAPL Reporting Form was submitted to the NJDEP under separate cover in May 2016. CME is currently conducting feasibility studies of potential remedial actions and preparing a Remedial Action Workplan in accordance with N.J.A.C. 7:26E-5.5 based on the findings of the remedial investigation.





PROJECT #11

UST CLOSURE, OLD HOMESTEAD FACILITY, FRANKFORD, SUSSEX CO., NEW JERSEY (NJDEP PI NO. 023669)

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| Contact: | Joseph Biuso, Director, Facilities Management |
| Client: | Sussex County |
| Tel: | (973)579-0490 |
| Duration: | April 2012- December 2012 |



On behalf of Sussex County, CME Associates provided LSRP services related to the closure of a regulated 1,000-gallon leaded gasoline underground storage tank and associated remediation. The UST was located at the Old Homestead facility at 129 Morris Turnpike, Frankford Township, Sussex County, New Jersey. The former 1,000-gallon leaded gasoline UST was designated Tank D-2 and was removed on December 26, 1995. Tank D-2 had leaked and contaminated soil was excavated and disposed offsite. Post-remedial soil samples were collected immediately after the soil excavation and analyzed for volatile organic compounds (VOCs; VO+10) and lead. Xylenes were reported at concentrations above the current NJDEP default Impact to Ground Water Soil Screening Level (IGWSSL). A monitoring well was installed at the down-gradient side of the tank excavation in November 1997, and groundwater samples were collected in January and February 1998. VOCs, MTBE, and TBA were not detected in the groundwater. The well was properly abandoned.

CME Associates was retained by the Sussex County to provide LSRP services for the former 1,000-gallon leaded gasoline UST area. Remedial activities have been provided under the supervision of Behram

Turan, P.E., LSRP, in accordance with NJAC-7:26C. In October 2012, CME conducted additional sampling in the former Tank D-2 area to confirm that no impact to soil remains above the current remediation standards. A series of soil borings were advanced to the top of bedrock in the area of concern and soils were screened for indications of contamination. Two discrete soil samples were collected for analysis of VO+15 and lead. Only trace levels of VOC TICs were reported, and lead concentrations were below the IGWSSL. No groundwater was encountered in the soil borings to a depth of 11 feet bgs.

Based on the findings of the post-remedial soil and groundwater sampling and the recent confirmatory soil sampling, CME Associates prepared a Remedial Action Report and recommended no further action for remediation of the former 1,000-gallon leaded gasoline UST area. On November 21, 2012, Behram Turan, P.E., LSRP, issued an unrestricted Response Action Outcome (RAO) for the Tank D-2 Area only.



PROJECT #12

UST CLOSURE AND INVESTIGATION, FORMER LINDEN POLICE DEPARTMENT JUVENILE BUREAU BUILDING, 13 KNOPF STREET, LINDEN, UNION CO., NEW JERSEY (NJDEP CASE NO. 14-06-04-1338-59)

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| Contact: | George Vircik, P.E., City Engineer |
| Client: | City of Linden |
| Tel: | (908)474-8470 |
| Duration: | June 2014 – Present |



On June 4, 2014, a 1,000-gallon No. 2 Heating Oil UST was closed under the direct supervision of CME. Upon removal, several small holes were observed in the UST and impacted soils were observed under the tank base. A discharge was reported to the New Jersey Department of Environmental Protection (NJDEP), and the NJDEP assigned Incident Number 14-06-04-1338-59 to the case. A Site Remediation Reform Act (SRRA) Confirmed Discharge Notification form was subsequently submitted to NJDEP. This heating oil release was associated with an unregulated UST (total capacity of 2,001-gallons or less) and oversight was provided by NJDEP's Unregulated Heating Oil Tank Program (UHOT). Behram Turan, P.E., LSRP of CME

managed remedial activities on behalf of the city.

After removal of the tank, slight petroleum-like staining and odors were identified in soils directly underlying the UST. These soils were screened with a photo-ionization detector (PID) which detected volatile vapors ranging from 56 parts per million (ppm) to approximately 470 ppm. No excavation of impacted soils was conducted. Four (4) soil samples were collected along the centerline of the UST footprint. Soils immediately below the UST were not impacted with EPH, naphthalene, or 2-methylnaphthalene concentrations above their respective remediation standards and screening levels. A groundwater sample collected in the former UST area was detected with elevated concentrations of benzene, VOC TICs, and various SVOCs above GWQS.

Based on elevated groundwater concentrations of benzene and SVOCs in the former UST area, a remedial investigation was recommended in accordance with N.J.A.C. 7:26E and NJDEP's *Groundwater Technical Guidance* document (Version 1.0, April 3, 2012). Additionally, further soil investigation was recommended to confirm that deeper soils in the former UST area are not impacted above IGWSSL. The UST closure and site investigation activities are summarized in CME's January 2015 UST Closure and Site Investigation Report.

CME subsequently conducted a Remedial Investigation consisting of the collection of additional soil and groundwater samples. Soil sampling was conducted to evaluate the deeper soils underlying the former UST. There were no exceedances of the applicable NJDEP SRS detected in any of the samples. No further investigation or remediation of this AOC is required. A groundwater investigation was conducted to delineate the extent of groundwater contamination. The investigation identified several VOCs and SVOCs at concentrations exceeding the GWQS. Based on the results of the investigation, the extent of groundwater contamination has been delineated. Due to the presence of contaminants above the applicable remediation standards, remediation of this AOC is required. CME is currently preparing a Remedial Investigation Report.



PROJECT #13

PRELIMINARY ASSESSMENT / REMEDIAL OVERSIGHT ACTIVITIES, FORMER SUNOCO SERVICE STATION, FREEHOLD, MONMOUTH COUNTY, NEW JERSEY

| | |
|------------------|---------------------------|
| Contact: | Robert Gallagher, |
| Client: | Ray Catena Motor Car Corp |
| Tel: | (732)549-6606 |
| Duration: | May-September 2015 |



As part of a due diligence assessment of property conditions, CME Associates conducted a Preliminary Assessment, as well as conducted field oversight and split sampling services related to site remediation activities (by others) at the above referenced Site.

CME previously conducted a Preliminary Assessment (PA) which identified fourteen (14) Areas of Concern (AOCs) associated with the Site. CME recommended a Site Investigation (SI) be conducted at nine (9) of the identified AOCs.

The current property owner conducted remedial activities at the Site including the removal of three (3) gasoline underground storage tanks (USTs) at AOC #5 and two (2) fuel dispensers at AOC #6 during August 2015. CME provided field oversight and split sampling services in conjunction with the UST removal activities conducted by the property owner.

CME collected split soil samples from the same locations and at the same times as those collected by the property owner's consultant. CME's samples were submitted to TestAmerica Laboratories of Edison, New Jersey (NJDEP Certification No. 12028) for analyses.

Analytical results reported by the laboratory indicate that gasoline constituents were identified in several of CME's samples; however, the concentrations detected do not exceed their respective RDCSRS, NRDCSRS, and/or IGWSSL. Benzene was detected in one (1) of the property owner's Consultant's



samples at a concentration which slightly exceeded the IGWSSL. Compliance averaging was utilized to achieve compliance with the remedial standard and CME concluded that the removal actions have achieved the remedial objective. The owner's Consultant issued an Unrestricted Use Response Action Outcome (RAO) for the three (3) 10,000-gallon gasoline USTs in September 2015.

CME personnel conducted a follow-up site inspection in September 2015 to assess site conditions. It was noted that the Waste Oil AST (AOC #7), Motor Oil AST (AOC #8), and Aboveground Hydraulic Lifts (AOC #10) previously identified at the Site had been removed.

Section 5.

Assigned Staff

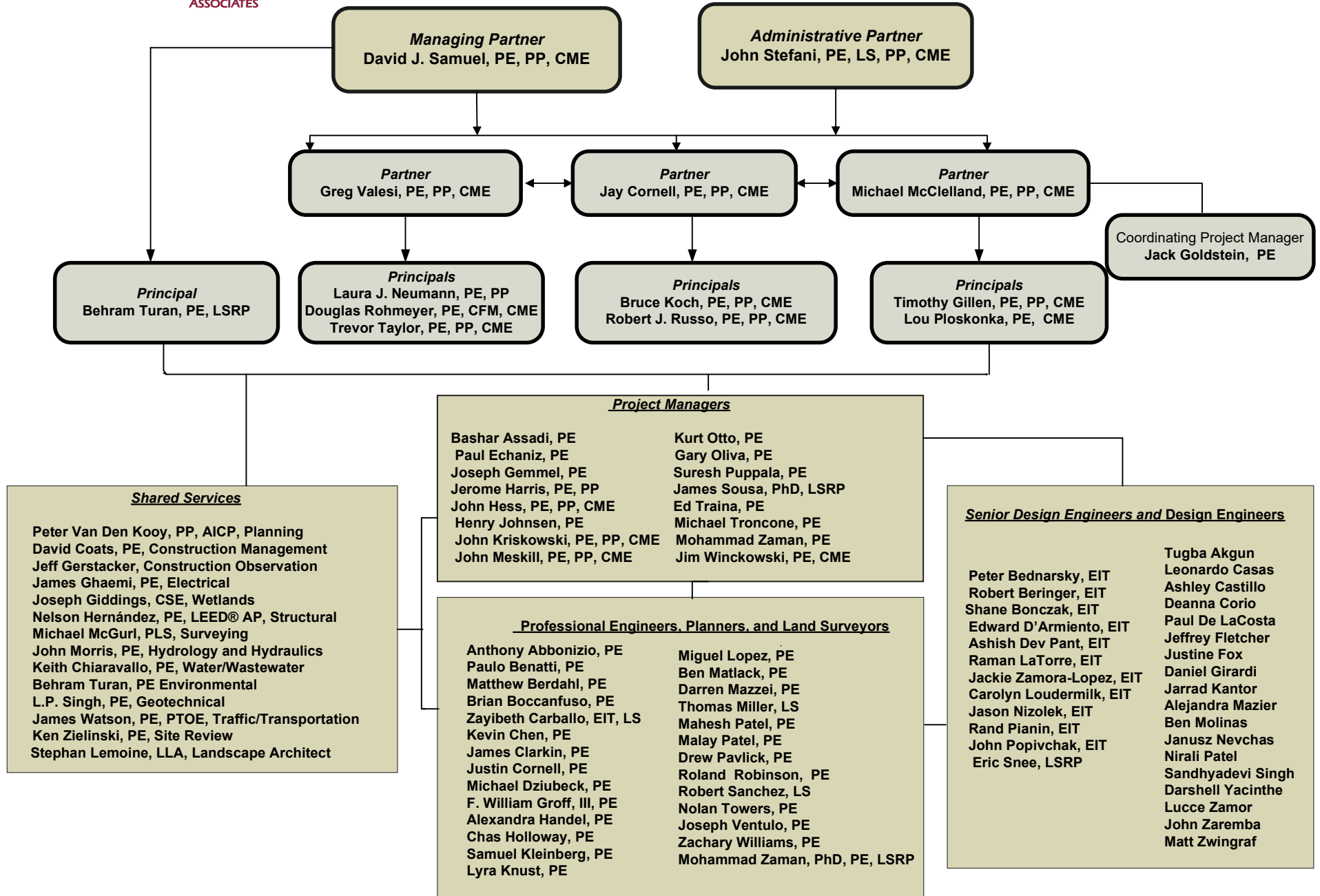
Qualifications

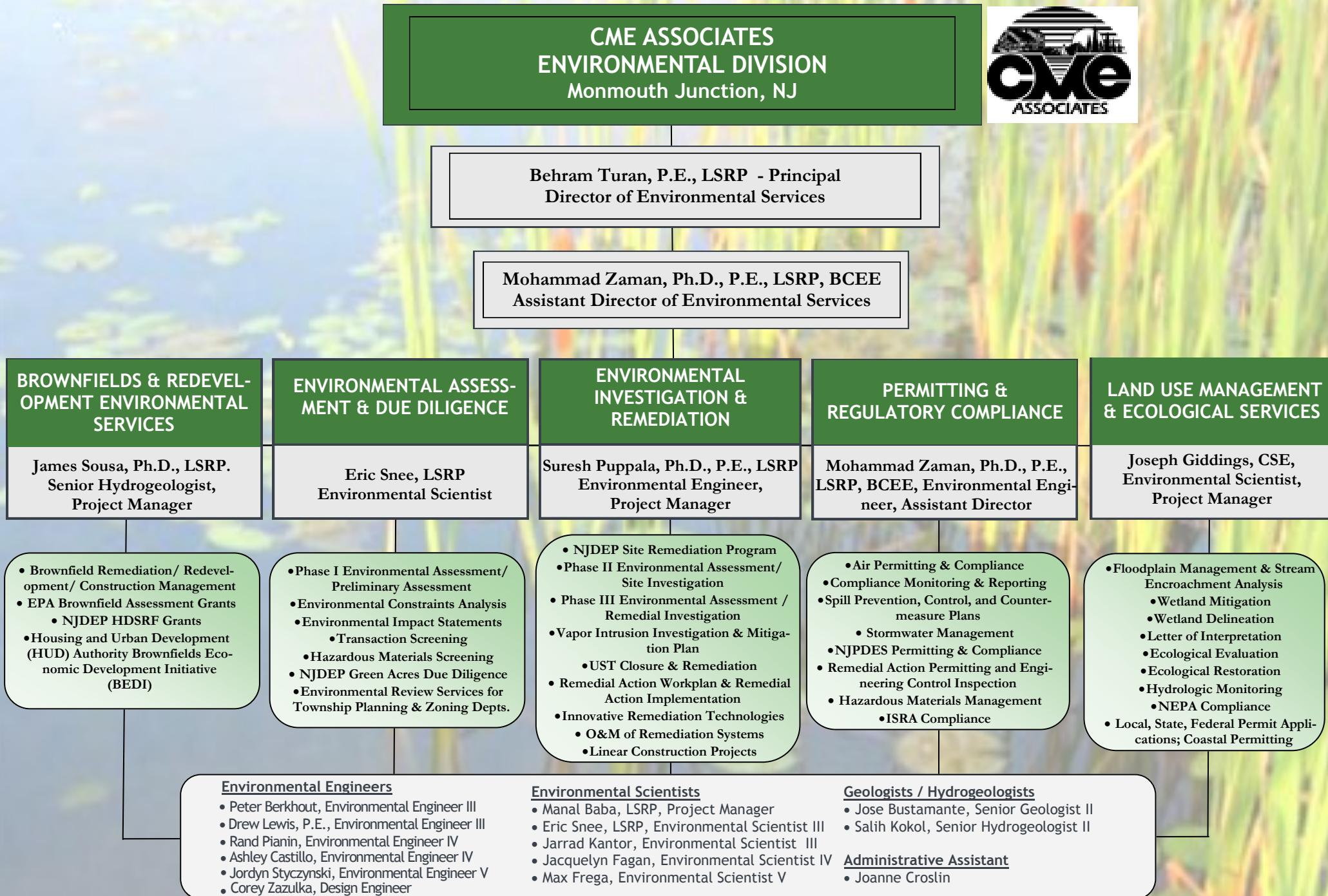


Organizational Chart



ORGANIZATION OF CME ASSOCIATES





List of Assigned Staff



LIST OF KEY PERSONNEL

- Behram Turan, P.E., LSRP, Principal, Director of Environmental Services
- Mohammad Zaman, Ph.D., P.E., LSRP, Asst. Director of Environmental Services
- James Sousa, Ph.D., LSRP, Project Manager
- Suresh Puppala, PhD., P.E., LSRP, Project Manager
- Manal Baba, LSRP, Project Manager
- Joseph Giddings, CSE, Project Manager
- Eric Snee, LSRP, Environmental Scientist
- Salih Kokol, CSE, Senior Hydrogeologist
- Peter Berkhout, Environmental Engineer
- Jarrad Kantor, LSRP, Environmental Scientist
- Jose Bustamante, Senior Geologist
- Drew Lewis, E.I.T., Environmental Engineer
- Rand Pianin, E.I.T., Environmental Engineer
- Jacquelyn Fagan, Environmental Scientist
- Ashley Castillo, Environmental Engineer
- Jordyn Styczynski, Environmental Engineer
- Cori Zazulka, Design Engineer
- Max Frega, Staff Scientist

Resumes of Assigned Staff



BEHRAM TURAN, P.E., LSRP - Principal

DIRECTOR OF ENVIRONMENTAL SERVICES

TITLE: Principal

DEGREE:

Rutgers University, New Brunswick, NJ
Ph.D. Candidate, Civil and Environmental Engineering

Colorado State University, Fort Collins, Colorado
M.S., Hydrology and Water Resources Management, 1984

Istanbul Technical University, Istanbul, Turkey
B.S., Civil Engineering, 1980

CERTIFICATIONS:

Professional Engineer, NJ, 1995 / #24GE03921000
Professional Engineer, Delaware, 1994 / #9606
Licensed Site Remediation Professional (LSRP) in NJ, 2009 / # 591482
Certified Subsurface Evaluator in NJ, 2003 / #203210

PROFESSIONAL TRAINING

NJDEP Case Study Training for LSRPs (2013)
NJDEP SRRA Implementation: The Final Rule Package (2012)
NJDEP's Regulatory Training in Underground Storage Tanks (2002, 2006, 2009, & 2012)
NJDEP's Site Remediation Basics (2003 & 2009)
40-hour OSHA Hazardous Waste Site Operations Health and Safety Certification (1992)
8-hour HAZWOPPER refresher (yearly since 1992)
8-hour HAZWOPPER Supervisor/Management (2006)
Short course on Groundwater Flow and Contaminant Mass Transport, University of Vermont, Burlington, Vermont, 1997
Short course on Unsaturated/Saturated Groundwater Flow and Contaminant Mass Transport, Princeton University, Princeton, New Jersey, 1989

Advanced Graduate level course work in the fields of Civil and Environmental Engineering, Colorado State University, Colorado; Rutgers and Princeton Universities, New Jersey

Extensive knowledge of surface water control models, and groundwater flow and mass transport models, including RMA2, TR55, HEC1, HEC2, MODFLOW, MT3D, SESOIL, MOC (Konikov's model) and PTC (Princeton Transport code).

MEMBERSHIP AND AFFILIATIONS:

National Brownfield Association
American Society of Civil Engineers
Water Environment Federation

GENERAL QUALIFICATIONS

Mr. Turan is the Principal and Director of Environmental Services of CME Associates. Mr. Turan has over 25 years of experience in the fields of environmental engineering, including site remediation, brownfields redevelopment, management of dredged materials and beneficial reuse, solid and hazardous waste management, wetlands mitigation, surface water hydrology, hydrogeology, groundwater flow and contaminant mass transport, and water resources planning. Mr. Turan is a Professional Engineer in the state of New Jersey, a Licensed Site Remediation Professional (LSRP), and a Certified Subsurface Evaluator. Mr. Turan has successfully completed a number of challenging site remediation projects leading to No Further Action Letter determinations from the NJDEP. Mr. Turan has issued a total of twenty (20) Response Action Outcomes (RAOs), and is currently involved in more than seventy (70) site remediation projects since the initiation of the LSRP Program.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Principal and LSRP in charge for the closure of a regulated 1,000-gallon leaded gasoline underground storage tank and associated remediation at the Old Homestead Facility in Frankford Township in Sussex County. Based on the findings of the post-

remedial soil and groundwater sampling included in the Remedial Action Report, Mr. Turan issued an unrestricted Response Action Outcome (RAO) for the former 1,000-gallon UST.

- Principal and LSRP in charge of remedial activities related to Princeton Meadows Golf Course in Plainsboro, Middlesex County, New Jersey. Remedial activities are related to the soil and groundwater contamination associated with the former five (5) USTs removed from the maintenance building area at the golf course. The required corrective actions include implementation of an interim remedial action to address remaining free product and offsite contamination.
- Principal and LSRP in charge at various USTs sites of the Mercer County Parks Department. Soil and groundwater media are impacted by contaminants released from the former operations of various sizes of gasoline, heating oil, and waste oil USTs. Remedial investigations have been provided under the supervision of Mr. Turan in accordance with NJAC-7:26C and the Technical Requirements for Site Remediation (NJAC 7:26E).
- On behalf of Sussex County, Mr. Turan has been providing LSRP services related to Multi-year LSRP services for five Road Maintenance Garage (RMG) locations within the County of Sussex. Soil and groundwater at the site are contaminated at levels above the applicable remediation standards. Remedial activities have been provided under the supervision of Mr. Turan, in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E), and the Administrative Requirements for the Remediation of Contaminated Sites -N.J.A.C. 7:26C-6.2(c).
- Principal and LSRP in charge of a site investigation at an ISRA facility in an industrial complex in Hillsborough Township. Mr. Turan prepared all necessary documents to bring the site in compliance and issued a Response Action Outcome (RAO) for the site.
- Principal and LSRP in charge of remediation of Penska Farm in Marlboro Township. Mr. Turan oversaw the investigation of the site and issued an RAO.
- Principal and LSRP in charge for the remediation of a mixed-use property in Jersey City. Mr. Turan oversaw remedial activities and issued a site-wide RAO for the site.
- Principal and LSRP in charge of a mixed-use lot in Hamilton Township. Mr. Turan directed the investigation and remediation of the site and issued an Unrestricted Use RAO for the site to be developed into residential buildings.
- Principal and LSRP in charge of completing the remediation from Preliminary Assessment through Remedial Action for a child-care center in the City of Clifton. Mr. Turan issued an unrestricted use RAO for a child-care center.
- Principal and LSRP in charge of conducting site remediation activities for the Woodbridge Redevelopment Agency along Lincoln Highway in Woodbridge for open space. Mr. Turan directed the site investigation through remedial action and restoration of the site. Upon completion, an RAO was issued for this site.
- Principal and LSRP in charge for the site remediation of a 100-acre open space project in Monroe Township for the Middlesex County Improvement Authority. Mr. Turan prepared a Remedial Action Work Plan to address areas of concern at the site. After implementation of the workplan, Mr. Turan issued an unrestricted use AOC-based RAO for the site.
- Principal and LSRP in charge of conducting remediation for the former Municipal Building in Evesham Township. Mr. Turan addressed five (5) AOCs on the site including USTs, a former drum storage pad, waste piles, an electrical transformer, and historic agricultural use. Mr. Turan directed the remediation activities and issued an Unrestricted Use RAO for the entire site.
- Principal and LSRP in charge of conducting all remedial activities for a 187.8 acre property

formerly used for agricultural purposes in South Brunswick Township. Mr. Turan directed the site investigation and remediation activities and issued an RAO.

- Principal and LSRP in charge of directing a Preliminary Assessment and Site Investigation for a former farmland for the Township of Westampton. Mr. Turan determined arsenic was naturally occurring and issued an Unrestricted RAO for the site.
- Principal and LSRP in charge of preparing a Remedial Investigation and Remedial Action Report for a preschool and park in North Brunswick Township. Mr. Turan as the LSRP brought the sites into compliance and issued two (2) Unrestricted RAOs for the sites.

Brownfields Redevelopment and Site Remediation

- Principal in charge for providing environmental engineering services to the Sayreville Economic and Redevelopment Agency (SERA) regarding the redevelopment over 400 acres of waterfront land into a prosperous mixed-use development consisting of residential, retail, office space, hotels, entertainment and recreation in Sayreville, New Jersey.
- Principal in charge for the implementation of the environmental improvement activities related to the landfill closure and redevelopment of the Former PSE&G and City of Bayonne Landfill Sites in Bayonne, New Jersey, including the implementation of final cover system, construction oversight of golf club structures, design and construction oversight of the underslab gas ventilation system for the Club House, implementation of landfill gas control system and design of final enclosed flare, operations of the leachate control system and leachate pre-treatment system, regulatory compliance for NJDEP permit requirements, Preparation of Remedial Action Report, and procurement of a site-wide No Further Action Letter.
- Principal in charge of managing and implementing

the soil and groundwater remedial investigation activities at the former Springfield Drum Site, located at 146 Lincoln Boulevard in the Borough of Middlesex, New Jersey. The site remediation activities are being funded through a Brownfield Assessment grant provided by the U.S. Environmental Protection Agency (EPA). Remedial investigation was conducted to further delineate previously identified soil contamination, evaluate the presence of groundwater contamination, and evaluate the shallow subsurface for any buried metal objects related to former site use. Based on the findings of field investigations, a Remedial Investigation Report (RIR) was prepared recommending additional activities.

- Principal in charge of performing remedial investigation at the Former South River Metals Redevelopment Site, Aberdeen, New Jersey, and identifying an integrated planning and management strategy for remediation and ultimately redevelopment of the site. A Remedial Investigation Workplan (RIW) and a grant through the Hazardous Discharge Site Remediation Fund were prepared for the planned remedial investigation activities. The remedial investigation was conducted in multiple areas of concern related to soil, groundwater, sediment, and surface water contamination. The findings of this investigation were presented in a Remedial Investigation Report.
- Principal in charge of the site investigations related to the soil and groundwater contamination at the former Middlesex Bus Co. Site, East Brunswick, New Jersey. A remedial investigation was performed to delineate the horizontal and vertical extent of soil and groundwater contamination on the site. The findings of this investigation were presented in a Remedial Investigation Report. In addition, a Remedial Action Workplan was developed.
- Principal in charge of preparing Remedial Action Workplan, and Corrective Action Report for delineation and removal of TSCA Hazardous PCBs impacted soils, and was a NJDEP designated

independent Fill Review Engineer including field QA/QC of over five million cubic yards of imported beneficial reuse materials including Processed Dredged Materials (PDM) for the closure and remediation activities at the Meadowlands Golf Course Redevelopment Project site in Lyndhurst and Rutherford, New Jersey.

- Principal in charge of redevelopment of a portion of the ILR Landfill for a proposed 550,000 SF warehouse/office building including site environmental improvements in Edison, New Jersey, including Site Investigation and Remedial Investigation, Remedial Action Workplan (RAW) for site redevelopment, Landfill Closure and Post-Closure Care Plan, and preparation of land use permit applications including LOI, and Waterfront Development Permit.
- Principal in charge of directing remedial investigation for soil and groundwater contamination emanating from a former dry cleaner at the Cranford Crossings Redevelopment site, a part of downtown revitalization effort in the Township of Cranford, New Jersey, including preparation of the Remedial Action Report documenting the remedial actions for chlorinated volatile organic contaminated soil and groundwater, and obtaining the No Further Action letter for the entire site.
- Principal in charge for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey into a Dredged Materials Processing facility. Directed remedial investigation and remedial action activities including Remedial Investigation for soil and groundwater, development of Remedial Action Workplan, and implementation of remedial action for soil and groundwater.

Solid and Hazardous Waste Management

- Principal in charge for providing defined and on-call services for the Monmouth County Reclamation Center Landfills, including Closure permit, NJPDES permit and Title V permit

compliance and monitoring services. In addition, on-call services include activities related to the landfill operations.

- Principal in charge for the implementation of the landfill closure and redevelopment activities for the former City of Bayonne Landfill Site in Bayonne, New Jersey, including Fill Acceptance Protocol and Review Engineer for final cover system, design of containment system including slurry wall and leachate collection and conveyance system, operations of the leachate control system and leachate pre-treatment system, implementation of final cover system including Processed Dredged Materials, design of underslab gas ventilation system for the Club House, design of landfill gas control system and enclosed flare, and regulatory compliance for NJDEP permit requirements.
- Principal in charge of landfill closure and redevelopment of a portion of the ILR Landfill for a proposed 550,000 SF warehouse/office building in Edison, New Jersey, including preparation of Landfill Closure and Post-Closure Care Plan, preparation of Major Landfill Disruption Permit application, preparation of landfill capping system, and preparation of landfill gas collection and conveyance system.
- Principal in charge of landfill closure and post-closure activities for the City of Linden Sanitary Landfill in Linden, New Jersey, including design of landfill gas extraction and control system, Quality Assurance services for the landfill closure activities including final capping system, stormwater management system, and passive landfill gas system, preparation of Landfill Closure and Post-Closure Plans with environmental improvements which included a slurry wall and leachate collection system. The project also included the attainment of all applicable local and state permits. Directed construction oversight for the environmental improvements of the City of Linden Landfill.
- Project Manager for designing a landfill gas collection system for a 330,000 square-foot warehouse building located at a former inactive

dump site in Carlstadt, New Jersey. The activities included the design of an active gas extraction and underslab gas ventilation system.

- Project Manager for the closure and redevelopment of a 165-acre former Elizabeth Landfill site for a major commercial facility (Jersey Gardens Mall) in Elizabeth, New Jersey. The project involved remedial investigations, feasibility studies, groundwater and surface water modeling, and design of a leachate collection system and stormwater management system as well as attainment of all related federal, state and local permits pertinent to the disruption and closure activities.
- Project manager for preparing landfill closure plans for the redevelopment of an inactive dump site for an educational institution in Passaic County, New Jersey. The project involved the design of leachate collection and conveyance system, stormwater management system, landfill gas collection and passive ventilation system, and landfill cover system.

Regulatory Compliance and Permitting

- Principal in charge of procuring the environmental permits for the NJTA Interchange 12 Final Improvements project including NJDEP Freshwater Wetlands General Permit Nos. 12 and 14, an Individual Freshwater Wetlands Permit/ Waterfront Development, Water Quality Certification, Transition Area Waiver and Coastal Consistency and Individual Section 10 and 404 Permit from the U.S. Army Corps of Engineers, and preparation of wetlands mitigation proposal, and engineering design of compensatory wetlands mitigation for approximately 10-acre area including the procurement of NJDEP and ACOE permit approvals.
- Principal in charge of procuring NJDEP permits for the redevelopment of a portion of ILR Landfill in Edison, NJ, including, Waterfront Development Permit, Landfill Closure and Post-Closure Plan, Major Landfill Disruption Permit, and Closure and

Post-Closure Financial Plan, and Remedial Action Workplan approval.

- Principal in charge of procuring NJDEP permits for the redevelopment of a Former Hess Oil and Gasoline Bulk Storage Facility in Newark, New Jersey, including Waterfront Development Permit, Applicable Use Determination for the Dredged Processing Facility, Nationwide ACOE permit, and Air Permit for the operation of the facility.
- Prepared an After-the-Fact Stream Encroachment Permit application for a commercial facility in Riverdale, NJ. The limits of the floodway of the Pequannock River were re-calculated due to the modifications made to the county bridge located downstream of the project site, which had altered flood elevation. The HEC-2 computer model was used to calculate the floodway by considering the modifications made to the downstream bridge openings. Based on calculated flood elevations, the NJDEP had to re-adopt the revised floodway of the Pequannock River.
- Delineated the 100-year stream encroachment lines using both the TR-55 and the HEC-2 computer models for the Ivanhoe Brook watershed as part of the stream encroachment permit application for a residential development.

Beneficial Reuse of Fill Materials

- Prepared Fill Acceptance Protocols and Beneficial Use Determination applications for a number of projects and successfully obtained NJDEP's approval for beneficial reuse materials including Processed Dredged Materials.
- Principal in charge and designated Review Engineer for over 2 million cubic yards of imported beneficial reuse materials used for the final cover system of the Bayonne Golf Course Redevelopment Project including the Former PSE&G site and the City of Bayonne Landfill in Bayonne, New Jersey.
- Principal in charge and designated Review Engineer for over 5 million cubic yards of imported beneficial reuse materials for shaping/grading and

cover systems including Processed Dredged Materials at the Meadowlands Redevelopment Project in Lyndhurst, New Jersey.

- Principal in charge of preparation of Fill Acceptance Protocol for approximately 500,000 cubic yards of imported fill materials and Processed Dredged Materials for redevelopment of a portion of the former ILR Landfill in Edison, New Jersey.
- Providing review engineering services to the Sayreville Economic and Redevelopment Agency (SERA) regarding the acceptance of the imported fill materials through the process of redeveloping over 400 acres of waterfront land into a prosperous mixed-use development consisting of residential, retail, office space, hotels, entertainment and recreation in Sayreville, New Jersey.

Expert Testimony and Litigation Support

- Prepared expert report for a litigation concerning the conduct of an environmental firm in the performance of Phase I and limited Phase II environmental site assessments for a commercial property transaction.
- Prepared expert report and provided technical support for Passaic Valley Sewerage Commissioners ("PVSC") regarding Spectraserv Pollution Control Facility's non-compliance with the NJDEP permit requirements for the stabilized sewage sludge materials at disposal facility in North Jersey.
- Prepared expert report and provided litigation support for the New Jersey Turnpike Authority Interchange # 12 Final Improvements project regarding cost recovery action against one of the property owners. Expert Report included evaluation of the existing site contamination and the required site remediation with respect to the identified soil and groundwater contamination. In addition, the Expert Report included rebuttals of certain opinions with respect to site remediation requirements and associated costs.
- Prepared an expert report and testimony for a

litigation concerning the migration pathways of benzene contamination in soil and groundwater, and potential impact of mercury soil contamination on groundwater resulted from former operations of the chemical plant in Clifton, New Jersey.

- Prepared an expert report for litigation to provide expert opinion and technical support regarding the source(s) of the soil and groundwater contamination emanated from a former gas station operations in New Jersey in an effort to recover costs associated with the performance of soil and groundwater investigations as well as soil remediation at the property.
- Prepared an expert report and rebuttal for PRP litigation to identify relative contributions of responsible parties for the cleanup and remediation costs of approximately \$40 million for a superfund site located immediately upgradient to the site by performing a regional groundwater flow and contaminant mass transport modeling in Fair Field, New Jersey.

EDUCATION / CERTIFICATIONS:

Ph.D. Envr. & Water Res. Engg. Texas Tech
M.S. Envr. & Water Res. Engg. Texas Tech
B.S. Civil Engg, BUET, Bangladesh

PROFESSIONAL REGISTRATIONS:

Registered Professional Engineer: New Jersey
(Lic.# 24GE04798000), Pennsylvania, & New York
NJ Licensed Site Remediation Professional (LSRP
Lic.# 575492)
NJDEP UST Certification Subsurface Evaluation,
Closure & Testing (Lic.# 500383)
Licensed (N2) Industrial Wastewater Treatment
System Operator (Lic. # 0022142)
OSHA 40-Hour HAZWOPER; OSHA 8-Hour
Refresher HAZWOPER, 2016
Board Certified Environmental Engineer (BCEE)
for Hazardous Waste Management by
American Academy of Environmental Engineers

GENERAL QUALIFICATIONS:

Dr. Zaman has more than 20 years of professional experience in providing technical and regulatory compliance services. He has provided LSRP services and issued Remedial Action Outcome (RAO) to bring closure to contaminated site. Dr. Zaman is experienced in planning and developing remedial strategies; evaluating and implementing innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art wastewater and remediation/pollution control systems. He has extensive experience in soil and groundwater characterization, groundwater flow and contaminant fate & transport modeling, and the design and implementation of innovative soil and groundwater remediation technologies. He managed numerous remediation projects involving closure of underground storage tanks (UST), in-situ and ex-situ soil and groundwater remediation and mass soil excavation and off-site disposal.

SUMMARY OF EXPERIENCE:

Selected LSRP Services:

*Estate of George Coe III, Middletown, NJ,
PI#213994*

Soil contamination was identified during the due diligence process in a wetland area within the easement of Township of Middletown Sewerage

Authority. Horizontal and vertical delineations of the contaminant of concerns (COCs) including PAHs and Arsenic were completed. Approximately 1000 tons contaminated soil was excavated and properly disposed offsite and the disturbed wetland was restored to pre-remediation conditions in compliance with the approved NJDEP permit guidelines. An unrestricted use AOC-Specific RAO was used to close the site on July 8, 2011.

Millburn Former Exxon Service Station, Essex County, NJ, PI#008979

Soil and groundwater contamination was identified during the historical decommissioning of seven (7) underground storage tanks at a gasoline service station. The township of Millburn retained Dr. Zaman to complete the horizontal and vertical delineations of the contamination and to develop a cost-effective Remedial Action Work Plan. Currently, the site is under remedial action implementation phase utilizing Epson Salt to augment sulfate concentration for Enhanced Anaerobic Bioremediation (EAB).

Remedial Design and Engineering, and Ground Water Modeling

Responsible for planning and developing remedial strategies; evaluating innovative and emerging technologies; designing, specifying, commissioning, and operating state-of-the art remediation/pollution control systems. The following is a brief description of some of the relevant projects:

Remedial Design for the Former Manufactured Gas Plant (MGP) Site, Jersey City, New Jersey

Developed remedial design for hydraulic containments, extractions, and treatments of organic and inorganic contaminants including Dense Non-Aqueous Phase Liquids (DNAPL), dissolved organics, ammonia, and metals. Historically, the property was occupied by a former coal gasification or manufactured gas plant (MGP site), rail yards, warehousing and shipping docks, and in later years, a former gasoline service station. Due to the large aerial extent (approximately 26 acres) of the dissolved and free-

phase plume areas in overburden and bedrock water bearing zones, presence of high pedestrian traffic, and extensively developed urban infrastructures, three (3) modular extraction systems are designed to be installed. A pilot testing program was conducted to evaluate the performance of a state-of-the-art treatment system consisting of electrolytic oxidation/electro-coagulation and ultrafiltration units.

Hercules Chemical Company, Inc, Passaic, NJ: Underground Storage Tanks (USTs) Closure

Provided professional engineering services to decommission eleven (11) USTs of various sizes ranging from 1500 gallons to 5000 gallons. These USTs were located inside an active manufacturing building.

Remedial Design and Implementation for Sulfuric Acid Spill Site, Linden, New Jersey

Designed and implemented fast-track emergency remedial measures to restore low pH impacted soil and groundwater emanated from the spill of 98% sulfuric acid. Designed and installed the subsurface alkaline leach bed, groundwater extraction/neutralization/ reinjection system to restore the impacted soil and groundwater within a severely limited physically constrained area. Dr. Zaman obtained expeditious approvals for the NJDEP coastal land use and discharge to groundwater permit-by-rule authorizations for fast-track implementation of the remedial measures.

Remedial Action for Chlorinated Volatile Organic Compounds in Groundwater, Roselle, New Jersey

The objective of the remediation activities for this site was to identify, delineate and remediate contaminants of concern to the applicable remediation standards. The targeted contaminants of concern for groundwater encompass chlorinated volatile organic compounds (CVOC) tetrachloroethene (PCE), trichloroethene (TCE) and breakdown daughter product cis-1,2-dichloroethene (cis-DCE). In-Situ Reduction (ISR) utilizing Emulsified Vegetable Oil (EVO) was selected as the most appropriate technology for CVOCs in groundwater for the Site.

Parmalat Welsh Farm Neptune Facility, Neptune Township: In-Situ Chemical Oxidation for BTEX (2011-2012)

Conducted extended remedial investigation and designed / implemented In-Situ Chemical Oxidation (ISCO) plan as a part of final remedial action to treat the residual VOCs (benzene, toluene, ethylbenzene, and xylene) in a confined aquifer overlain by semi-permeable layer and unconfined aquifer. All three zones contained the residual VOC contaminants extended up to 65-ft below the ground surface.

Middlesex County Fire Academy: Underground Storage Tank Removal and Aboveground Storage Tanks Installation, Sayreville, NJ

Provided client contact, construction management, and regulatory compliance oversight services. MCFA received Notice of Violations due to various non-compliances related to ten underground storage tanks (USTs) and oil-water separators ranging in size from 550 gallons to 20,000 gallons. Designed and implemented pre-closure soil and groundwater investigation to prepare cost-effective closure plans with variances approved by NJDEP. Prepared public bid documents for the removal of USTs and installation of underground oil-water separators and aboveground storage tanks (ASTs) ranging in size from 2000 to 25000 gallons. Designed leak-detection monitoring and various pump operation control systems. Developed EPA Spill Prevention Control and Countermeasure (SPCC) plan for the site. Custom designed process water treatment for 2500 gpm flow rate to treat the “oily water” generated from “Burn-Pit” fire training.

Globe Petroleum / Citgo Service Station, Welsh Farms, Red Bank, NJ

The NJDEP designated the case to be of “Immediate Environmental Concern” due to the environmental exposure emanating from historical release of gasoline from a series of underground storage tanks. Implemented an emergency environmental response and comprehensive soil & ground water investigation / remediation program at the site located adjacent to the

environmentally sensitive Navesink River. The installed in-situ soil and groundwater treatment system was operational for four years. Secured NJDEP permits for air quality and discharge to surface water. The NJDEP issued “No Further Action” letter for the site which is currently under institutional control with CEA for natural attenuation.

Society Hill at Droyers Point, Jersey City, NJ

Conducted Site Investigation (SI) / Remedial Investigation (RI) / Remedial Action (RA) leading to the removal of soils that exceeded the residential standards for Hexavalent Chromium and disposal of soils at off-site landfill. Slurry wall installed to isolate the project site from outside contaminant sources, and capillary breaks/liners installed to provide added protection from potential groundwater sources. Conducted groundwater modeling utilizing GMS Package that uses MODFLOW to investigate the groundwater mounding and impact of the slurry wall surrounding the project site. Designed vapor barrier/mitigation system for the residential buildings. NJDEP issued NFA for the site.

Stormwater Management and Permitting

Dr. Zaman has developed Stormwater Management Plans for numerous new subdivisions totaling more than 5000 units. Representative project experience includes the following:

Demolition of Aluminum Manufacturing Plant, Confidential Client, Maryland.

Developed soil erosion and sediment control plan in compliance with the regulatory requirements for demolition of aluminum manufacturing facility on a 160-acre plus site. The pre-demolition site contained multiple chemical solution baths to facilitate cathodic reactions and detention and retention basins. The proposed post-demolition site contains graded lands ready for future developments.

Four Seasons at Wall, New Jersey

Developed soil erosion & sediment control and stormwater management plans for an active adult community new subdivision consisting of more than 400 single-family units, multiple condominium units, and a commercial complex consisting of a super market and a mini strip mall. The integrated stormwater management plan includes five (5) interconnected detention/retention basins. Extremely complex permitting process required state and federal approvals due to the presence of endangered species at the immediate downstream of the project site. Delineated 100-year floodplain and obtained stream encroachment permit.

Jasper Creek Feasibility Study and Rehabilitation, Newark, New Jersey

Conducted hydrologic and hydraulic analyses utilizing TR-20 and HEC-2 computer programs to identify the causes of frequent floods and drainage congestions within the watershed. Evaluated the existing conveyance capacity of the tidally influenced creek containing multiple bridges/culverts and tide gates and performed the alternative analysis to optimize the channel improvement costs.

Mahwah Honda Site Improvement, Mahwah, New Jersey

Located within the FEMA flood hazard zone, a portion of the site was subjected to frequent flooding problems. The site was divided by a long undersized pipe culvert. Conducted complex hydrologic and hydraulic analysis utilizing TR-20, HEC-2, and XP-SWMM models to design an underground flood storage vault and a replacement pipe culvert which was relocated along the perimeter of the property. The site was regarded to raise it above the 100-year flood elevation. Secured the NJDEP land use regulation permit and provided the client contact and construction management.



JAMES SOUSA, Ph.D., LSRP
PROJECT MANAGER

EDUCATION

Ph.D. Geosciences: Penn State University (1996)
M.S. Geology: Penn State University (1989)
B.S. Geophysics: Lehigh University (1985)

CERTIFICATIONS

Licensed Site Remediation Professional in New Jersey (LSRP No. 586573)
Certified Subsurface Evaluator in New Jersey (License No. 216355)
OSHA 40-hour HAZWOPER Training Certification
OSHA 8-hour HAZWOPER Refresher

TRAINING

Regulatory Training in Underground Storage Tanks
Innovative Technologies for Site Remediation
Applied Soil Science for Remediation of Contaminated Soil
Contaminated Fractured Rock Hydrogeology and Geophysics
Groundwater in Fractured Bedrock
Ecological Risk Assessments
Methodology of Delineating Wetlands

GENERAL DESCRIPTION OF EXPERIENCE

Dr. Sousa is a Project Manager and Geologist with 16 years professional experience in environmental engineering and remediation in New Jersey. He has worked on all phases of remedial projects, ranging from preliminary assessments and remedial investigations to implementation of remedial actions and post-remedial monitoring. Dr. Sousa is experienced in soil and groundwater investigations and remediation, ecological evaluations, and contaminant modeling, and is familiar with New Jersey environmental regulations. He has prepared successful HDSRF Grant applications and has managed several remedial investigations employing HDSRF Grants and EPA Brownfield Remediation Grants.

SITE REMEDIATION PROJECTS

Former South River Metal Products Redevelopment Site, Aberdeen Township, New Jersey

Dr. Sousa managed the remedial investigation at an abandoned industrial facility in Aberdeen, Monmouth County, New Jersey. The work was conducted on behalf of the Township of Aberdeen, and the investigations were funded through a Hazardous Discharge Site Remediation Fund (HDSRF) grant. The initial grant award and supplements totaled \$700,811 for site and remedial investigation activities. Dr. Sousa coordinated all drilling, field sampling, and laboratory work. A total of thirty-four (34) contaminated areas of concern were identified on the site and a Remedial Investigation Workplan was prepared and approved by the NJDEP.

The general objective of the remedial investigation was to determine the extent of soil and groundwater contamination on the site and to evaluate potential contaminant migration pathways including surface drainage ditches and historic stormwater piping. Investigations were also performed to characterize the site geology and develop a Conceptual Site



JAMES SOUSA, Ph.D., LSRP
PROJECT MANAGER

Model for the project. Soil contaminants at the site include petroleum hydrocarbons, VOCs, PAHs, PCBs, and various metals including arsenic, lead, and nickel. Contaminants of concern in groundwater include benzene, chlorinated VOCs, and nickel. Ecological evaluations were conducted, including sampling of wetland soils, stream sediment, and surface water. A Remedial Investigation Report was approved by the NJDEP. Dr. Sousa managed two interim remediation projects at the site that were related to the removal of a 15,000 gallon PCB oil tank, a 6,500 gallon No. 6 oil tank, and a 5,000 gallon No. 4 oil tank, including contractor coordination, field oversight, soil excavation, waste disposal, post excavation sampling, and report preparation. CME Associates is coordinating with the Township to redevelop the site for multi-unit residential use, and preparation of a final Remedial Action Workplan is ongoing.

Princeton Meadows Golf Course Site, Plainsboro, New Jersey

Dr. Sousa is managing the remedial investigation at the Princeton Meadows Golf Course site located in Plainsboro, Middlesex County, New Jersey. The work is being conducted on behalf of the Middlesex County Improvement Authority (MCIA). Dr. Sousa managed the remedial activities including the initial efforts to remove LNAPL used a bio-slurping and Enhanced Fluid Recovery (EFR) method. In these methods, LNAPL is remediated via a combination of vacuum-enhanced recovery and bio-venting processes. The EFR method implemented in the June 2012 LNAPL recovery effort at the site employed a mobile soil venting unit to apply a vacuum to extract vapor, product, and groundwater from the well. Dr. Sousa prepared an LNAPL Interim Remedial Measures Report and continues with the remedial activities.

Layton Maintenance Garage, Layton, Sussex County, New Jersey

CME Associates has been retained to provide LSRP services to the County of Sussex for its Layton Maintenance Garage in a multi-year contract. The site soil and groundwater has been impacted by leaking various underground storage tanks. Dr. Sousa is managing the remedial investigation activities at the site. The ongoing remedial investigation at the site involves soil and groundwater sampling to delineate contamination and delineating extent of LNAPL. Interim remedial actions involve LNAPL recovery and activated carbon treatment of the potable well water that serves the garage. Dr. Sousa prepared an LNAPL Interim Remedial Measures Report. Dr. Sousa prepared a Remedial Investigation Work plan (RIW) and Receptor Evaluation for the Layton Maintenance Garage, and is managing the remedial activities at the site in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E).

Frankford Maintenance Garage, Frankford, Sussex County, New Jersey

CME Associates has been retained to provide LSRP services to the County of Sussex for its Frankford Maintenance Garage in a multi-year contract. A 2,000 gallon leaded gasoline UST was removed in December 1996. Also in 1996, a diesel fuel UST was removed and a kerosene UST was abandoned in place. A second diesel fuel UST was removed in April 1999. Soil and groundwater at the site are contaminated at levels above the applicable remediation standards. Groundwater in the vicinity of the former gasoline tank is impacted by volatile organic compounds (VOCs) including benzene and chlorinated VOCs.

The NJDEP issued a Notice of Deficiency (NOD) on September 29, 2009, indicating that the remedial investigation of soils, groundwater, sediment, surface water, and wetlands was not complete. Dr. Sousa prepared a Remedial



JAMES SOUSA, Ph.D., LSRP
PROJECT MANAGER

Investigation Work plan (RIW) and Receptor Evaluation for the Frankford Maintenance Garage (NJDEP File No. 95-04-04-1633-25; NJDEP PI No. 010005), and is managing the remedial activities at the site in accordance with the Technical Requirements for Site Remediation (NJAC 7:26E).

Former Springfield Steel Drum Redevelopment Site, Middlesex Borough, New Jersey

Dr. Sousa managed the remedial investigation at a former industrial site in Middlesex Borough, Middlesex County, New Jersey. The work was conducted on behalf of the Middlesex County Improvement Authority (MCIA), and the investigations were funded through an EPA Brownfield Remediation Grant. Dr. Sousa coordinated and implemented a remedial investigation of soil and groundwater in several areas of concern related to historic site use. Investigations included preparation of a Quality Assurance Project Plan, a geophysical survey, and implementation of a soil boring and sampling program including x-ray fluorescence (XRF) screening for arsenic. A groundwater investigation was conducted to assess potential impacts to an overburden water bearing zone and a shallow bedrock water bearing zone, including offsite contamination. Shallow groundwater at the site is impacted with arsenic, lead, and antimony, and wells were sampled using a Low Flow Purging and Sampling (LFPS) method to accurately assess metals contamination. Dr. Sousa coordinated with a developer to prepare a remedial action workplan consistent with a plan for multi-unit residential redevelopment of the property.

Former Redemption Power Site, Plainfield City, New Jersey

Dr. Sousa is managing the remedial investigation at the site of a former dry cleaning facility in Plainfield, Union County, New Jersey. The work is being conducted on behalf of the City of Plainfield, and the investigations are funded through an EPA Brownfield Remediation Grant. Remedial investigations of the contaminated areas of concern were conducted, including underground storage tank systems, floor drains, hazardous materials storage and handling areas, and waste disposal areas. Dr. Sousa managed an interim remediation involving the closure of PCE and heating oil USTs and soil excavations, including contractor coordination, field oversight, post-remedial sampling, and report preparation. Soil contaminants of concern include petroleum hydrocarbons, PCE, PAHs, pesticides, and metals. Groundwater is impacted with PCE, and remedial investigations of groundwater are ongoing. The City is considering various options for redevelopment of the property, including park/community garden and possible residential use.

Bloomfield DPW Site, Bloomfield Township, New Jersey

Dr. Sousa managed a remedial investigation at an active public works facility in Bloomfield, Essex County, New Jersey. The work was conducted on behalf of the Township of Bloomfield and was funded through a Hazardous Discharge Site Remediation Fund (HDSRF) grant. Investigations were implemented to delineate the extent of soil contamination in areas of concern associated with former USTs and tank piping systems, to characterize impacts to groundwater. The investigations are ongoing, and an application for additional HDSRF funding was submitted to the NJDEP.

Former Middlesex Bus Company Site, East Brunswick Township, New Jersey

Dr. Sousa managed the remedial investigation and remedial action workplan preparation at the site of a former bus depot in East Brunswick, Middlesex County, New Jersey. The work was conducted on behalf of East Brunswick Township, and was funded through a Hazardous Discharge Site Remediation Fund (HDSRF) grant. Soil contaminants



JAMES SOUSA, Ph.D., LSRP
PROJECT MANAGER

of concern include petroleum hydrocarbons, BTEX, PAHs, pesticides, and metals. An investigation was implemented to delineate the extent of soil contamination and evaluate potential ecological impacts to a stream on the property. Monitoring wells were installed to evaluate the extent of benzene and ethylbenzene contamination in shallow groundwater. A Remedial Action Workplan consistent with potential residential redevelopment of the site was prepared and approved by the NJDEP.

Department of Public Works Site, Carteret Borough, New Jersey

Dr. Sousa managed a remedial investigation and remedial action at a former wastewater treatment facility in Carteret, Middlesex County, New Jersey. Investigations were implemented to delineate the extent of soil and groundwater contamination in areas of concern associated with former gasoline and heating oil USTs. A Remedial Action Workplan consistent with redevelopment of the site for use as a DPW facility was prepared. Impacted soils were excavated and disposed offsite. A monitored natural attenuation remedy was implemented for contaminated groundwater and a CEA was established.

Matchaponix Avenue & North State Home Road, Monroe, New Jersey

Dr. Sousa managed a remedial investigation and remedial action at a mixed use property in Monroe Township, Middlesex County, New Jersey. Soil contamination associated with a heating oil UST, fill material, and a non-residential septic system was remediated. A post-remedial groundwater investigation was conducted to confirm no impacts to groundwater. A cap was installed and a deed notice was established for contaminated fill. Dr. Sousa coordinated the work with the project LSRP and managed the remedial oversight, post-excavation sampling, and report preparation.

Pulda Farm, South Brunswick Township, New Jersey

Dr. Sousa managed a remedial investigation and remedial action at a residential and agricultural property in south Brunswick, Middlesex County, New Jersey. The work was conducted on behalf of the Middlesex County Improvement Authority (MCIA) Township in association with its open space conservation program. Soil contamination related to ASTs and debris piles was excavated and disposed offsite. Dr. Sousa coordinated with the project LSRP and took the lead investigative role in all aspects of the remedial process from a preliminary assessment through the remedial investigations of soil and groundwater. Dr. Sousa managed the remediation including contractor coordination, field oversight, post-remedial sampling, and final report preparation.

Livingston Municipal Complex, Township of Livingston, NJ

Dr. Sousa managed the remedial investigation and remedial action at a municipal facility in Livingston Township, New Jersey. Contaminated historic fill was identified on the site, and a Remedial Action Workplan for capping was developed and implemented in coordination with the construction of a municipal complex and police station.

EDUCATION / CERTIFICATION:

New Jersey Institute of Technology,
PhD in Civil Engineering (1993 – 1998)

New Jersey Institute of Technology,
MS in Environmental Engineering (1991 – 1993)

Osmania University, Hyderabad,
BS in Civil Engineering (1987-1991)

New Jersey Professional Engineer
License No. 24GE04315300

New Jersey LSRP
License No. 590707

GENERAL DESCRIPTION OF EXPERIENCE:

Suresh Puppala has over 15 years of experience in environmental engineering. His experience spans the gamut from academic research to consulting engineering services associated with characterization and remediation of impacted soil/groundwater. He has managed several projects whose assessed values ranged from a few thousand to multi-million dollars. His remediation experience included implementation of several traditional and innovative in-situ remediation technologies at pilot scale (lab/field) and full scale (e.g., pneumatic fracturing, soil vapor extraction, enhanced natural attenuation, etc.).

REPRESENTATIVE PROJECTS:

Carteret Landfill Redevelopment, Carteret, NJ:

Managed various environmental aspects (during the final stages) of a landfill closure and redevelopment (construction of 1,250,000 sf of warehousing facilities) funded by the New Jersey Environmental Infrastructure Trust. Specifically, communicated /negotiated with New Jersey Department of Environmental Protection as needed; overseeing site grading operations, landfill capping soil quality control and placement; approved subcontractor submittals associated with installation of leachate collection/treatment system, landfill gas collection system, temporary and permanent landfill gas flares; analyzed compliance of the landfill gas extraction system with the NJDEP air permit requirements (i.e., flare sizing analysis to ensure emissions comply with the air permit, type of control/safety devices to be utilized, etc.); evaluated landfill gas detection systems for building interiors; prepared and submitted monthly progress reports and a Landfill Closure Report.

Whippany Landfill, Whippany, NJ:

Managed O&M activities associated with a closed landfill adjacent to an active logistics center. Specifically, ensured

compliance with the NJDEP air permit; negotiated with NJDEP modifications to the air permit (elimination of activated carbon control units etc.); prepared RADIUS submittals to NJDEP to modify air permit; managed emissions compliance sampling/reporting, landfill gas monitoring and facility inspection and groundwater compliance sampling.

Municipal Complex, Washington Township, NJ:

Managed the characterization of soil and groundwater impacts associated with a petroleum discharge from an underground storage tank. The project was complicated by litigation (cancer patient), commingling plume for different entities and local pumping influences of nearby domestic wells. Several nested monitoring wells within the overburden and bedrock were installed. Oriented rock cores were obtained, borehole flow-meter tests were conducted to facilitate contaminant fate and transport analysis.

Former Dry Cleaning Facility, Spring Lake, NJ:

Managed the characterization and remedial alternatives analysis of free-phase, soil and groundwater impacts. The groundwater impacts extended several hundred feet down-gradient of the source area and were a potential indoor air quality concern for several residences in the vicinity. The investigation was complicated by the local geology (comprising of alternating clay and sand strata) and the depth (~ 100 ft bgs) to which the groundwater impacts extended.

The characterization of the site included collection of tens of soil, groundwater and indoor air samples. The samples were collected from temporary borings and several nested monitoring wells. Extent of free-phase was delineated based on partitioning of amounts of PCE in collocated soil and groundwater samples collected based on the results of a Membrane Interface Probe (MIP) investigation. Remedial alternatives analysis included bench-scale testing by a subcontractor to evaluate the feasibility of addressing the impacts utilizing enhanced natural attenuation techniques. Indoor air quality impacts on-site and in one residence down-gradient were alleviated by installing a sub-slab depressurization system.

Former Keystone Metal Finishers, Secaucus, NJ:

Managed the remediation of chlorinated volatile organic compounds impacting the groundwater. Enhanced natural attenuation techniques were utilized and involved injection of amendments (HRC). The amendments injection was completed at several hundred boring locations within a grid on-site and off-site. Managed collection of indoor air quality samples from homes located down-gradient of the site and related community outreach.

MANAL BABA, L.S.R.P. PROJECT MANAGER



EDUCATION / CERTIFICATIONS:

International Institute for Infrastructural Hydraulic and Environmental Engineering (IHE), Delft, Netherlands, MS, Groundwater Engineering, 1995

Birzeit University, BS Civil Engineering, 1993

PROFESSIONAL REGISTRATIONS:

Licensed Site Remediation Professional,
#585484

NJDEP UST Subsurface Evaluator, License
#196347

40-Hour OSHA Haz-Mat Certified OSHA 8-Hour
Supervisory/Refresher Training American Red
Cross

First Aid and Adult CPR

New Jersey Licensed Site Professional
Association (LSRP) # 585484

Years in Industry:

20 Years

Areas of Expertise:

Environmental Engineering, Civil Engineering,
LSRP, Environmental Site, Assessments,
Investigation and Remediation; Multi- Phased
Environmental Projects, Soil & Groundwater
Assessments; ISRA Property Transactions,
Brownfield Redevelopment

SUMMARY OF EXPERIENCE:

Ms. Baba has over 20 years of experience in environmental engineering applications, specializing in investigation and remediation

of soil and groundwater contamination and project management. She has performed numerous site and remedial investigations; field pilot studies; hydrogeologic fate and transport modeling analyses; design, implementation, and operation; and maintenance of remedial systems at various publicly and privately owned facilities in New Jersey.

Ms. Baba has designed and implemented various treatment technologies at petroleum hydrocarbon contaminated sites, including high vacuum extraction/enhanced fluid recovery (HVE/EFR), soil vapor extraction (SVE), air sparging (AS), biosparging, bioslurping, and intrinsic bioremediation. Holland

Ms. Baba has also managed environmental investigations, evaluated potential contaminant source areas, identified and assessed potential risks to receptors and developed risk management options. She has considerable leadership experience serving as field and office supervisor for a group of staff scientists and engineers. Her leadership experience also includes extensive communications with clients and building long-term business relationships, coordinating and managing subcontractors, large-scale cost estimating, long-term management of large development projects, and remedial design and implementation. She has prepared professional reports for public agencies and private developers, property owners, and other clients in New Jersey.

Ms. Baba also has considerable field experience including management of large-scale drilling, excavation, sampling, and air monitoring operations, performing groundwater and soil sampling, soil vapor sampling, air sampling, aquifer testing, and using photo-ionization detector (PID), and well-sampling equipment. Additional experience includes:

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- Preparing large-scale cross-sections, boring logs, well construction logs, contour maps, and groundwater models and experience in sample data management, statistical analysis and interpretation using multiple computer programs.
- Conducting data analyses for pumping tests and slug tests, developing groundwater contour maps, and delineating contaminant plumes using SURFER® software.
- Preparing Remedial Action Progress Reports, Remedial Investigation Reports, Remedial Action Workplans, and Classification Exception Area Reports.
- Preparing permits, data validation, quality assurance, groundwater related studies, modeling fate and transport of subsurface contaminants, and reports and workplans submitted to the NJDEP for contaminated sites.

Prior responsibilities include developing remedial approaches, writing technical reports and proposals, preparing budgets, and schedule management.

Ms. Baba also developed a database for the groundwater and surface water data and information in the West Bank. Her Master's research focused on developing a hydrogeological model for the eastern basin of the West Bank.

REPRESENTATIVE PROJECTS:

Fire House No. 4, Township of West Orange NJ. Project Manager and LSRP responsible for conducting soil and groundwater investigations, oversight of monitoring well installations, vapor intrusion investigation, sensitive receptor surveys and evaluations, ecological evaluations, and selection of remedial actions. Soil and

groundwater impacts were fully delineated during the RI activities. Provided guidance to field staff, contractors, supervised and reviewed sampling and technical reports in accordance to the regulatory standards.

Lindsley Avenue Bus Garage, Township of West Orange NJ. Project Manager and LSRP responsible for conducting soil and groundwater investigations, oversight of monitoring well installations and selection of remedial actions. Soil and groundwater impacts were fully delineated during the RI activities. Provided guidance to field staff, contractors, supervised and reviewed sampling and technical reports in accordance to the regulatory standards. Based on the findings of free-phase product in few monitoring wells, a HVE was implemented at the site and the free-phase product has proven to be affective and was successfully completed.

Bergen County Mosquito Control, Paramus, NJ. Project Manager and LSRP responsible for conducting soil investigations associated with the proposed development of a new DPW facility and selection of the remedial action. An area of stressed vegetation with confirmed soil impacts was fully delineated and remediated via excavation and offsite disposal. Reviewed technical reports in accordance with the regulatory standards for Site Investigation and Remedial Investigation. Completed the remedial action and issued a Response Action Outcome.

Bergen County Justice Complex, Hackensack, NJ. Project Manager and LSRP responsible for conducting SI and RI activities to further evaluate Areas of Concern (AOCs) identified at the site in support of the planned construction of a new County Agency Building and Parking



Deck. Identified 48 AOCs during the Preliminary Assessment (PA). Soil and groundwater impacts were fully delineated during the RI activities. Provided guidance to field staff and contractors, and supervised and reviewed sampling and technical reports in accordance with regulatory standards.

Sayreville DPW First Aid Squad, NJ. Project Manager for performance of an RI for soil and groundwater impacts at the site. Conducted Oxygen Release Compound (ORC) pilot testing under a permit-by-rule, and managed compliance groundwater monitoring and sampling at the site.

Various Contaminated Sites, Elizabeth, NJ. Project Manager and LSRP that performed SI, RI, and vapor intrusion investigations; prepared Remedial Action Selection (RAS) and Remedial Action Work Plan (RAWP) reports; and implemented Remedial Action (RA) at various city-owned, contaminated sites; e.g., Water Utility Garage; City Yard; Mickey Walker; Annex Building, Marina; Fire Engines # 3, 5, 6, 7; Fire Headquarters; Masnicki Park; NJ Transit; the former Saxony Motel, Veterans Park etc. Responsibilities also included design and installations of SVE/AS and HVE/EFR remediation systems, enhanced bioremediation technology applications, excavation of impacted soil, and conducting long-term compliance monitoring at the various sites. Implementation of remedial actions was completed at some sites and a RAO was issued for the completed cleanup of soil and groundwater.

Closter Department of Public Works, Closter, NJ. Project Manager responsible for performing RI and modeling to assess the fate and transport characteristics of an underground gasoline plume onsite. Designed

and implemented an oxygen release material (ORM) injection program to expedite the degradation of the dissolved gasoline plume. A Classification Exception Area (CEA) for the plume under a Monitored Natural Attenuation Program (MNAP) was established.

Municipal Building, Borough of Bergenfield, NJ. Project Manager and LSRP responsible for conducting soil and groundwater investigations, oversight of monitoring well installations, vapor intrusion investigation, sensitive receptor surveys and evaluations, ecological evaluations, and selection of remedial actions. A CEA for the plume under an MNAP was established. Upon implementation and completion of Remedial Actions, issued an RAO for the site.

Former Keystone Facility, Secaucus, NJ. Responsible for overall management and bedrock groundwater remedial investigations. Designed and implemented an in-situ bioremediation of chlorinated solvents. Provided risk assessment and risk based analysis, compliance and monitoring programs, air quality. Tasks also included attendance at public meetings and a presentation to the public and local authorities.

JOSEPH A. GIDDINGS, C.S.E.
PROJECT MANAGER (ENVIRONMENTAL SCIENTIST)



EDUCATION / CERTIFICATION:

Stockton State College
B.S. Geology 1982

Florida Institute of Technology
A.S. Oceanographic Technology 1979

Cook College, Rutgers University
Continuing Professional Education

NJDEP Certified Subsurface Evaluator
License No. 00016181

- Soil and Site Evaluation for Septic Disposal Systems, 1986
- Understanding Soil Conditions in Wetlands, 1988
- Permit Seminar Series, 1989
- Wetland Systems of the Northeast, 1989
- Technical & Regulatory Training in Underground Storage Tanks, 1992
- Environmental Audits and Site Assessments, 1993
- Hydrology of Wetlands, 1995
- Hydric Soils, 1995
- Methodology of Delineating Wetlands, 1995

GENERAL DESCRIPTION OF EXPERIENCE:

Mr. Giddings has over twenty years of experience in Environmental Regulatory Compliance. The experience includes a wide variety of disciplines including those necessary to evaluate proposed residential subdivisions, commercial and industrial sites, and public park grounds for feasibility from the standpoint of the environmental regulations concerning freshwater wetlands, coastal wetlands, CAFRA, waterfront development and individual subsurface sewage disposal systems. His experience also includes site remediation where he has conducted numerous preliminary environmental assessments, site investigations, remedial investigations and project remedial action oversight.

RELEVANT EXPERIENCE:

City of South Amboy – Main Street Reconstruction:

Project involved a lengthy delineation of wetlands and preparation of land use permit applications to the NJDEP and the U.S. Army Corps of Engineers.

**Township of Plainsboro –
Schalk's Crossing & Scudders Mill Road Intersection
Reconstruction:**

Project entailed a wetland delineation and land use regulation permit application for wetland fills.

Township of Manalapan –

Iron Ore Road and Highbridge Road Reconstruction:

Project involved a lengthy delineation of wetlands and complicated permit application for wetland and transition area impacts to the NJDEP.

**State of New Jersey, Turnpike Authority –
Reconstruction of Interchange 12:**

Project required an extensive wetland delineation of freshwater and coastal wetlands for the interchange construction and for the areas of wetland mitigation. Individual permit applications were required from both the NJDEP and the U.S. Army Corp of Engineers.

EXPERIENCE:

1984 to Present CME Associates
Environmental Scientist

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ERIC R. SNEE, LSRP
ENVIRONMENTAL SCIENTIST

EDUCATION:

Drexel University, Philadelphia, PA
Bachelor of Science, Environmental Science, 2006

CERTIFICATIONS AND TRAINING:

NJ Licensed Site Remediation Professional (LSRP)
License No. 668739
Certified Subsurface Evaluator
(NJDEP License No. 492017)
OSHA 40-hour HAZWOPER (29 CFR 1910.120)
Training Certification
OSHA 8-hour HAZWOPER Refresher (completed annually)
Continuing Education Credits in Technical Subjects
NJDEP Case Study Training for LSRPs
Combining Engineered Contaminant Source Area
Treatment Technologies (Rutgers University)
Regulatory Training in Underground Storage Tanks
Environmental Site Assessments
Site Remediation Basics
Wetland Delineator Program (Rutgers University)

MEMBERSHIP AND AFFILIATIONS:

NJ Licensed Site Remediation Professionals
Association
Association of Ground Water Scientists and
Engineers - National Ground Water Association

GENERAL QUALIFICATIONS:

Mr. Snee has over ten (10) years of professional experience in the environmental consulting industry conducting investigations and remedial actions to reduce environmental liabilities in a cost effective, technically sound manner. Mr. Snee's expertise includes preliminary environmental assessments, environmental investigations, site remediation, regulatory knowledge, and environmental related construction projects. He has extensive experience conducting soil, groundwater, surface water, sediment, and vapor intrusion investigations,

receptor evaluations, and remedial projects at industrial, commercial, agricultural, residential, and open space properties contaminated by petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.

Mr. Snee is highly proficient at evaluating site conditions, assessing risks, and performing soil, groundwater, surface water, sediment, soil-gas, and indoor air sampling. His remedial expertise includes bio-remediation, chemical oxidation, groundwater and soil sampling, soil borings, monitoring well and gas probe installations, soil blending, and underground storage tank (UST) and soil excavation. Mr. Snee is highly proficient conducting aquifer tests to evaluate hydrogeologic parameters and modeling groundwater flow and contaminant mass transport. He has extensive experience in data management and Geographic Information System (GIS) software to assess site-specific and regional geologic, hydrogeologic, and environmental conditions. Mr. Snee maintains a working understanding of current EPA and NJDEP regulations including N.J.A.C. 7:26E (TRSR), N.J.A.C. 7:26C (ARRCS), N.J.A.C. 7:26B (ISRA), and N.J.A.C. 7:14B (UST) regulations. Mr. Snee has significant skill conducting environmental investigations and remediation in conjunction with Brownfield redevelopment and real estate assessments pursuant to ASTM and applicable regulatory standards.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Conducted environmental and remedial investigations and remedial actions for industrial, commercial, agricultural, and open space properties and child care facilities throughout New Jersey. Prepared workplans, reports, and forms in support of issuance of restricted and unrestricted Response Action Outcomes (RAOs).

- Conducted environmental assessments and investigations and prepared final reports for Linear Construction Projects throughout New Jersey.

Brownfields Redevelopment & Site Remediation

- Conducted environmental investigations and remedial actions at contaminated commercial and industrial sites throughout New Jersey, including workplan and report preparation, soil boring and well installations, gas probe installations, UST excavations, and sampling of soil, groundwater, sediment, surface water, concrete, soil-gas, and indoor air.
- Prepared Preliminary Assessment (PA), Site Investigation (SI), Remedial Investigation (RI), and Remedial Action (RA) Reports and Response Action Outcome (RAO) for redevelopment of a former industrial/commercial site in Hamilton, NJ.
- Prepared PA, SI, RI, RA Workplan, and RA Reports and RAO for a mixed use property in Jersey City, NJ
- Conducted remedial investigations and remedial actions under State and EPA oversight at an active industrial site in Grenada, Mississippi. Managed the field investigation team and subcontractors, directed the installation of soil borings, monitoring wells, and gas probes, and conducted soil, groundwater, surface water, sediment, and soil-gas sampling as part of the remedial investigation. Remedial activities included free product (LNAPL) recovery and a rejuvenation study of the Permeable Reactive Barrier (PRB) Wall in place at the site for the remediation of chlorinated solvents in groundwater.
- Conducted environmental assessment and investigations for redevelopment of the Former Knox Gelatin industrial site in Camden, NJ. The investigations included a PA, SI/RI, Baseline Ecological Evaluation (BEE), Receptor Evaluation (RE), and sampling of soil borings and groundwater monitoring wells.
- Conducted remedial investigations and prepared remedial investigation report for the Former Logan Circuits Inc property in Logan Township, NJ. Performed soil and groundwater sampling, conducted aquifer tests, and modeled groundwater flow and contaminant mass transport.
- Conducted remedial investigations for the redevelopment of an unregistered solid waste landfill in Bridgeton, New Jersey. The investigations were conducted using a Hazardous Discharge Site Remediation Fund (HDSRF) grant and included soil boring and well installations and soil and groundwater sampling.
- Conducted environmental and remedial investigations and remedial actions for redevelopment of the Former Pennsauken Mart in Pennsauken, NJ. Contamination related to heating oil USTs, a former gas station, and a former dry cleaner was identified at the site. Investigations included soil boring, monitoring well, and gas probe installations and soil, groundwater, and soil-gas sampling. Remedial activities included UST and soil excavations, and enhanced bio-remediation for petroleum hydrocarbons and chlorinated solvents in groundwater.
- Conducted site and remedial investigations and remedial actions for redevelopment of multiple properties along the Camden Waterfront, NJ. Investigations included soil, groundwater, and soil-gas sampling. Prepared SI, RI, and RA reports and documents to establish several deed notices and classification exception areas.
- Conducted site and remedial investigations and remedial actions for redevelopment of the Former Stokes Cannery in Vincentown, NJ. The investigations were conducted utilizing a HDSRF grant. Conducted soil, groundwater, surface water,

sediment, and concrete sampling and prepared SI and RI workplans and reports.

- Conducted site and remedial investigations and remedial actions at the Former Cherry Hill Equipment Corp property in Voorhees, NJ. Coordinated soil boring and monitoring well installations, conducted soil and groundwater sampling, and provided oversight of remedial activities including source removal and asbestos abatement.
- Conducted site and remedial investigations at the Former Presswell Records Manufacturing Co property in Winslow, NJ. The former industrial facility was subject to ISRA and investigations were conducted utilizing a HDSRF grant. Mr. Snee performed soil, groundwater, surface water, and sediment sampling, and prepared workplans and reports.
- Conducted site and remedial investigations and remedial actions at an industrial facility in Cherry Hill, NJ. Soil and groundwater investigations and remedial activities resulted in the procurement of a No Further Action (NFA) determination from the NJDEP.
- Conducted site and remedial investigations and remedial actions at several properties as part of the redevelopment of downtown Merchantville, NJ. The investigations were conducted utilizing a HDSRF grant and included soil, groundwater, soil-gas, and indoor air sampling. Remedial activities included the installation of a sub-slab vapor mitigation system for a residential structure.
- Conducted site and remedial investigations for the redevelopment of the Holly Chemical Co Inc property in Mount Holly, NJ. Soil and groundwater investigations were conducted using a HDSRF grant.
- Conducted site and remedial investigations for the redevelopment of the Former Ankokas Mills properties in Mount Holly, NJ. The properties historically contained a manufactured gas plant, a

dye and processing company, and other industrial facilities. Soil, groundwater, and vapor intrusion investigations and multi-phase remedial actions were conducted utilizing a HDSRF grant.

- Conducted site and remedial investigations for the redevelopment of the Regal Custom Fixtures Co Inc (former) property in Mount Holly, NJ. Soil and groundwater investigations and multi-phase remedial actions were performed utilizing a HDSRF grant.
- Conducted site and remedial investigations for the redevelopment of a former dump in Camden, NJ. The property was historically utilized to dump sludge from the local wastewater treatment plant. Performed soil and groundwater investigations and prepared workplans and reports. Remedial actions involved ex-situ thermal treatment of soils and resulted in the issuance of a restricted use RAO.
- Conducted site and remedial investigations and remedial actions at an unregistered solid waste landfill in Deptford, NJ. Performed soil and groundwater sampling, and coordinated remedial actions to allow for redevelopment of the site for residential purposes.
- Conducted site and remedial investigations for the redevelopment of the Former Borden Chemical Printing site in Camden, NJ. Investigations included soil boring and monitoring well installations at the former industrial facility.

Environmental Site Assessment and Investigation

- Managed and conducted Preliminary Assessments and Phase I ESAs for industrial, commercial, agricultural, residential, and open space properties and child care facilities throughout New Jersey.
- Managed and conducted environmental and remedial investigations at industrial, commercial, agricultural, residential, and open space properties throughout New Jersey.
- Managed and conducted remediation for industrial, commercial, and residential underground storage

tank (UST) removals including soil, groundwater, and vapor intrusion investigations and preparation of remedial action reports.

- Managed and conducted a UST investigation at the Municipal Complex in Winslow, NJ. Performed a soil and groundwater investigation and prepared the Site Investigation Report and unrestricted use RAO.

- Managed and conducted environmental assessments and investigations for redevelopment of multiple vacant properties in Bridgeton, NJ for residential purposes. Former property uses included an unregistered solid waste landfill. Performed soil and groundwater investigations and prepared workplans and reports.

- Conducted environmental assessment for an active public works facility in Clifton, New Jersey.

- Conducted environmental assessment and coordinated investigations of mixed use properties as part of redevelopment of downtown Glassboro, New Jersey. Former uses included a former gas station/auto repair facility, commercial, municipal, and residential properties.

- Conducted site and remedial investigations at the Hartford Service Center (former) in Mount Laurel, NJ utilizing a grant procured through the UST fund. The investigations included soil boring and well installations and resulted in the issuance of an unrestricted RAO.

- Conducted environmental investigations and remedial actions for residential redevelopment of at a property in Westampton, NJ. The investigations included soil and groundwater sampling. Remedial actions included UST and soil excavations, groundwater extractions, and monitored natural attenuation resulting in the procurement of an unrestricted NFA determination from the NJDEP.

- Conducted environmental assessment and site and remedial investigations at the Former Jiffy Lube in

Cinnaminson, NJ. The investigations included soil, groundwater, and soil-gas sampling.

- Conducted site and remedial investigations and remedial actions at Allied Litho in Somerdale, NJ. The UST and background investigations included soil and groundwater sampling. Remedial actions included UST and soil excavations, and chemical oxidation of petroleum hydrocarbons resulting in procurement of an unrestricted NFA determination from the NJDEP.

- Managed and conducted environmental investigations at an active gas station/auto repair facility in Waterford Twp, NJ. The investigations included soil and groundwater sampling associated with ASTs, USTs, hydraulic lifts, wastewater disposal systems, and an adjacent former tank farm.

- Conducted environmental and remedial investigations at the Cherry Hill Municipal Building in Cherry Hill, NJ. The investigations included soil, groundwater, soil-gas, and indoor air sampling associated with contamination resulting from UST discharges.

- Conducted environmental and remedial investigations and remedial actions at an ISRA facility in Palmyra, NJ. Performed soil and groundwater sampling, provided oversight of soil excavations, and prepared workplans and reports resulting in the issuance of an unrestricted use RAO.

Land Use Evaluations

- Performed wetland delineations in accordance with Federal and New Jersey regulations. Prepared applications for regulatory wetland boundary verification, general permits, and individual permits.

- Conducted landfill gas monitoring, cover verification, and maintenance inspections, and prepared quarterly reports for several 'legacy' landfills in New Jersey.



SALIH KOKOL
GEOLOGIST

EDUCATION:

B.A., Geology, City University of New York, Queens College, NYC, NY, 1983

M.A. Candidate., Hydrogeology and Geo-Chemistry, City University of New York, Brooklyn College, New York, NY

CERTIFICATIONS AND TRAINING:

- Licensed Subsurface Evaluator, #0011795, State of New Jersey
- Licensed N-2 Industrial Wastewater Operator, #0005765, State of New Jersey
- Understanding Site Remediation in New Jersey – NJDEP and LSRPA collaboration
- OSHA Rule 1910.120 Training: 40-Hour Health & Safety Course
- Professional Development Training: Analysis and Design of Aquifer Tests
- Operation and Maintenance of Wastewater Collection Systems
- New Jersey Department of Environmental Protection and Energy Underground Storage Tank Rules and Regulation Certification Course
- Delaware Department of Natural Resources and Environmental Control Underground Storage Tank Rules and Regulation Certification Course
- USACE Training for Contractor Quality Management for Contractors

MEMBERSHIP AND AFFILIATIONS:

- Geologic Society of America
- National Groundwater Association

GENERAL QUALIFICATIONS:

Mr. Kokol has more than twenty-five (25) years of professional experience in the environmental consulting industry conducting investigations and remedial actions. Mr. Kokol's expertise includes investigating underground storage tanks, subsurface releases of LNAPL and DNAPL compounds, performing environmental site assessments, site remediation, geotechnical investigations, site investigations, remedial investigations, Phase I and Phase II investigations, and maintaining regulatory

interface. He has extensive experience conducting soil, groundwater, surface water, and vapor intrusion investigations, receptor evaluations, and remedial projects at military facilities, landfills, refineries, industrial, commercial, and residential properties contaminated by petroleum hydrocarbons, MGP, chlorinated solvents, heavy metals, and PCBs.

Mr. Kokol has vast expertise in evaluating site conditions, assessing risks, and performing soil, groundwater, surface water, sediment, soil-gas, and indoor air sampling. His remedial expertise includes installation, operation and maintenance of SVE/Air Sparge Systems, Pump & Treat, Air stripping, and SVE w/Catalytic oxidizer, P&T w/chemical treatment and GAC filtration systems, steam injection, bio-remediation, chemical oxidation injections, groundwater and soil sampling, installation of monitoring and recovery wells, soil borings, and underground storage tank (UST) and soil excavation. Mr. Kokol is highly proficient conducting aquifer tests to evaluate hydrogeologic parameters and modeling groundwater flow. He has extensive experience in data management and various mapping and logging software to assess site-specific and regional geologic, hydrogeologic, and environmental conditions. Mr. Kokol maintains a working understanding of current NJDEP regulations including N.J.A.C. 7:26E (TRSR), N.J.A.C. 7:26C (ARRCS), N.J.A.C. 7:26B (ISRA), and N.J.A.C. 7:14B (UST) regulations as part of the licensing process.

SUMMARY OF EXPERIENCE:

Remedial Investigations:

- Investigated service stations, landfills, pipelines, terminals, Superfund sites, and government and industrial facilities and private residences.
- Designed and implemented more than 100 Remedial Investigation/Remedial Action Workplans in California, Delaware, Maryland,

New Jersey, New York, Pennsylvania and Virginia.

- Performed and supervised subsurface investigations, including environmental and geotechnical test borings, installation of ground water monitoring wells, and collection of soil and ground water samples for contaminant plume delineation.

Underground Storage Tank Investigation, Removal and Closure:

- Directed removal and testing of more than 20 underground storage tanks (USTs) and replacement of three oil/water separators at government facility in Delaware. Procured materials, supervised site, and ensured regulatory compliance. Project was completed two weeks ahead of schedule and under original budget.
- Investigated multiple UST leaks and installed numerous monitoring and recovery wells to delineate free-phase and soluble-phase contaminants along and across a major highway in New Jersey. Conducted aquifer testing and SVE testing for a proposed treatment and SVE system. Oversaw installation and operation of a pump-and-treat system, air stripping, and SVE (with catalytic oxidizer) system operation. All work was completed in compliance with NJDEP regulations.
- Assessed/investigated multiple UST leaks at various gasoline stations in Long Island and upstate New York. Delineated contaminant plumes across city streets; proposed system design for soluble-phase contamination; and conducted feasibility studies and aquifer tests for product recovery, ground water pump-and-treat, and SVE systems. Operated and evaluated numerous product recovery and ground water remediation systems (pump-and-treat, air stripping, and carbon filter), and complied with NYSDEC regulations.

Soil and Ground Water Remediation:

- Evaluated, selected appropriate treatment technologies, and managed over 100

remediation projects involving the operation and maintenance (O&M) of remedial systems – including startups, routine site visits, compliance sampling and reporting, carbon change-outs, equipment maintenance, and troubleshooting.

- Prepared O&M Manuals and “How To” documents.
- Commissioned more than 25 treatment plants.
- Implemented the O&M of an extraction system designed to establish hydraulic control within a landfill in New Jersey, while maintaining regulated discharge criteria.
- Provided general management, risk assessment, and feasibility services for proposed future remediation of subsurface petroleum release from a major pipeline in New Jersey. Coordinated and oversaw street and sidewalk drilling, aquifer testing, and ground water quality determination in immediate area of concern. Based on the findings, an ORC® injection grid was established and activity was conducted. Post-application testing indicated four-fold reduction of the contaminant concentrations...with resultant cost savings for client.
- Involved in the dewatering of a multi-layered aquifer in New Jersey to facilitate remediation of radioactive wastes. Participated in well design and pump test design. Conducted multiple short-term pump tests, and evaluated the results to determine effective dewatering strategy and final dewatering implementation. Set up computerized data collection network and trained staff on monitoring, troubleshooting, and data interpretation. Coordinated efforts between regulatory agencies and client for permit-required ground water sampling events, and conducted these utilizing various sampling techniques as necessitated by site conditions. Cleanup and the simultaneous dewatering efforts were successfully completed on schedule.
- Oversaw, evaluated, and implemented O&M activities for fuel oil skimming, ground water pump-and-treat, and steam injection remedial methodologies at a Virginia site.
- Directed well installation, system O&M, soil and ground water sampling, system and hydrogeological evaluation, and procurement of various equipment for ground water remediation

and product recovery at multi-contaminant site in Virginia. Site cleanup levels exceeded expectations and the case was approved for site closure.

Remedial System Design:

- Participated in conceptual design of numerous remedial system design projects, including soil excavation, dewatering, soil and geomembrane caps, soil vapor extraction, air sparging, free product recovery, and ground water extraction and treatment systems.
- Completed special geotechnical soil boring/well installation programs for barrier/slurry walls, deep excavations and landfill design.
- Directed emergency response to recover gasoline discharged into sanitary sewer system at a New Jersey gasoline station. Completed impact study and site assessment, including contaminant plume delineation across a major highway. Performed aquifer and SVE testing. Designed a treatment system that combined pump-and-treat and SVE (with catalytic oxidizer) technologies. All work was completed in compliance with New Jersey Department of Environmental Protection (NJDEP) regulations.
- Directed remediation of jet fuel contamination at a New York airport to obtain a risk-based closure according to New York State Department of Environmental Conservation (NYSDEC) criteria. Recovery and treatment technologies used were dual phase vacuum extraction, oil/water separation, low-profile air stripping, liquid-phase carbon absorption, catalytic oxidation of exhaust gases, and vapor-phase carbon treatment. Conducted aquifer testing and analyzed the test data in aiding system design. Performed O&M for product recovery. Successful operation of the system removed liquid phase product to below the NYSDEC required levels across the site.

Construction Management:

- Served as Construction Manager at a New York utility site that involved installation of test pits; delineation of deep and shallow MGP contamination, conducting aquifer tests to

determine hydraulic characteristics of the subsurface; and disposal of generated solid and liquid wastes.

- Served as Construction Manager at 36-acre site in New Jersey; planned, scheduled and directed multiple drilling and excavation crews; maintained communication between the client and regulatory agencies. Maintained cost tracking and monthly invoicing functions. The investigation remained on schedule, met all target dates, and was completed within budget.
- Served as Construction Manager at 31-acre site in New York involving demolition of multiple buildings, disposal of generated debris and steel. Project also involved continuous air monitoring environmental, geotechnical and geochemical drilling, collection and analyses of samples to determine site characteristics and delineate LNAPL and PCBs.

PETER BERKHOUT, N-2 LICENSED ENGINEER III



EDUCATION / CERTIFICATIONS:

M.E. Envr. Engineering, Stevens Institute of Technology

B.A. Envr. Studies Major, Geoscience Minor, Montclair State College

PROFESSIONAL REGISTRATIONS:

Licensed (N2) Industrial Wastewater Treatment System Operator (Lic. # 497100)

OSHA 40-Hour HAZWOPER

Certified Environmental Air Compliance Auditor

GENERAL QUALIFICATIONS:

Mr. Berkhout has more than 20 years of professional experience in providing environmental remediation, engineering, and permitting services, project management assistance, engineering support activities, and general project support work and report writing.

Mr. Berkhout specializes in soil and groundwater remediation system design, installation, operation, and maintenance. He has supervised dozens of underground storage tank (UST) closures and related soil remediation. He has designed the installation of several USTs in accordance with NJDEP regulations. In addition, he has extensive experience with vapor intrusion investigations and mitigation. He has been the task leader on several ISRA projects and been instrumental in achieving a no further action outcome for many of the projects.

Mr. Berkhout has a comprehensive knowledge of NJDEP air and water quality regulations and compliance and has extensive experience in permitting and regulatory compliance, including air permitting (PCP, EIPT emission statements, emissions testing, emission calculations), water permitting (NJPDES, POTW, TWA), soil erosion permitting, Stormwater Pollution Prevention Plans (SPPP), and Spill Prevention Control and Countermeasure (SPCC) Plans.

SUMMARY OF EXPERIENCE:

Storm Water Management System Project & NJPDES Stormwater and Air Permitting – Manufacturing Facility - Wallington, NJ

- Designed storm water/spill containment system w/ 3,000-gal. O/W separator and managed system

installation at a dairy product manufacturing facility.

- Budgeted the project and remained within budget.
- Assistant project manager for air and NJPDES stormwater permitting.

NJPDES Storm Water Pollution Prevention Plan – Manufacturing Facility - Carlstadt, NJ

- Performed all work to prepare a Stormwater Pollution Prevention Plan and achieve timely compliance with an NJDEP Notice of Violation.
- Worked with engineering and other plant personnel to achieve compliance.

Soil Erosion & Sediment Control Permitting – Various Sites – NJ & PA

- Prepared several Soil Erosion & Sediment Control permit applications independently, all reviewed and sealed by a PE.
- Obtained permits for all applications and managed implementation of the control measures.

Groundwater Pump & Treat System For Site Remediation Project - Edison, NJ

- Assisted PE with re-design and installation of multi-well groundwater pump and treat system for CVOC plume at a former manufacturing facility.
- Managed day to day operations of the system for 8+ years and managed or assisted with project management for 15+ years while successfully remaining within a guaranteed fixed budget.
- Prepared all permit applications and obtained all air, POTW, TWA, and municipal wastewater discharge permits for the system and managed these permits for 15+ years without any violations.

Groundwater Pump & Treat System For Site Remediation Project - Allendale, NJ

- Engineering support and project management assistance for design, permitting, installation, and operation of multi-well/multi-phase groundwater pump and treat system for BTEX plume at former retail gas station.
- Prepared permit applications and obtained air, NJPDES, TWA, and municipal wastewater discharge permits. Managed permits for 10+ years without any violations.

Dewatering Project – Manhattan, NYC, NY

- Assisted PE with design and operation of a multi-well dewatering system for new building construction.

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- Obtained and managed dewatering permit and sewer connection approval for sanitary sewer discharge.
- Obtained refund of \$50k from NYCDEP for unused discharge fees.

Dewatering Project – Jersey City, NJ

- Designed, permitted, and operated dewatering system for CVOC plume within contaminated soil excavation project for new construction.
- Obtained sewer discharge permits from municipal and POTW agencies and managed the dewatering phase of the project.

Air Permitting & Compliance - Teaneck/Madison, NJ

- Managed and assisted with management of all air permitting for substantially out of compliance facilities with dozens of major sources.
- Prepared all permit applications, emission statements, emission inventories, and emission calculations.
- Managed and supervised all air testing of boilers and generators.
- Worked as client's liaison with NJDEP and obtained compliance and managed all air permitting for 15 years.
- Avoided major facility status and \$300k of regulatory requirements.

Industrial Site Remediation Project - Edison, NJ

- Prepared all permit applications and obtained all air, POTW, TWA, and municipal wastewater discharge permits for the system and managed these permits for 15+ years without any violations.
- Assisted PE with re-design and installation of multi-well groundwater pump and treat system for CVOC plume at a former manufacturing facility.
- Managed day to day operations of the system for 8+ years and managed or assisted with project management for 15+ years while successfully remaining within a guaranteed fixed budget.

Various Environmental Permitting Projects- NJ

- Prepared air and water discharge permit applications for dozens of facilities.
- Obtained permits for all applications.
- Facility types included manufacturing, environmental remediation, educational, landfill, laboratory, transportation.

- Managed and maintained air compliance monitoring, recordkeeping, and reporting for dozens of projects requiring air permits.

Sub-Slab Depressurization System Project – Fairfield, NJ

- Assisted with the design and management of the installation of a 45 extraction point, 2,600 cfm, 15,000-lb. carbon controlled system in a 20 acre warehouse facility.
- Applied for and obtained the necessary air permit and successfully managed the permit with no violations.
- Managed O&M of the system and remained within budget for 3 years.

SVE/Sub-Slab Depressurization System Project – Saddle Brook, NJ

- Designed and managed the installation and O&M of a 10 extraction point, 1,100 cfm, 6,000-lb. carbon controlled SVE/SSD system in and around a 5,000 sq. ft. bldg. within a tightly spaced industrial park.
- The dual system solved the problem of providing concurrent soil remediation and vapor mitigation under a tight fixed budget.
- Applied for and obtained the necessary air permit and successfully managed the permit with no violations.

Brownfield Redevelopment Project- Bethlehem, PA

- Assistant project manager for soil and groundwater remediation at former manufacturing facility.
- Obtained PADEP approval for reuse of coal ash under a parking lot with no active remediation required for multiple groundwater plumes.
- Client was provided relief of liability for future remediation at the site below the guaranteed fixed budget.

Industrial Site Remediation Project - Carlstadt, NJ

- Lead scientist for cleanup of a former manufacturing facility with over 20 areas of concern under New Jersey's ISRA program.
- No Further Action was obtained for all areas of concern, soil and groundwater, including the historical fill which was allowed to remain in place at the site under asphalt and soil/vegetated caps.



JARRAD KANTOR
ENVIRONMENTAL SCIENTIST

EDUCATION

New Jersey Institute of Technology, Newark, New Jersey
M.S., Environmental Policy, concentration in Environmental Engineering 12/2008

Rutgers University-Cook College, New Brunswick, New Jersey
B.S., Environmental Economics, Dean's List: Fall 2000 and Fall 2001 1/2003

CERTIFICATIONS

- OSHA 40-Hour HAZWOPER 29 CFR 1910.120(e) certified with annual refreshers
- Accredited AHERA Inspector (Reg #: RWL 3272AA)
- New Jersey Health and Senior Services (NJDHSS) Lead Inspector/Risk Assessor – Permit/ID Number 024840
- Loss Prevention System™ (LPST™) Certified
- In process of attaining New Jersey Department of Environmental Protection (NJDEP) Licensed Site Remediation Professional (LSRP) license

PROFESSIONAL DEVELOPMENT

- Basics of Geology Hydrology and Chemistry course at Rutgers University, Fall 2011
- Environmental Data Resources' Due Diligence at Dawn seminar, Fall 2010
- SkillPath® Seminars' Excelling as a Manager or Supervisor workshop, November 2012

EXPERIENCE

- Directed remedial investigations, actions, and reporting activities in concert with a LSRP, NJDEP's *Technical Requirements for Site Remediation* (TRSR), and NJDEP's Site Remediation Program (SRP) technical guidance documents.
- Managed numerous remedial field and evaluation activities including: light non-aqueous phase liquid (LNAPL) recovery using skimmers, LNAPL viscosity testing, calculating site-specific NJDEP Impact to Ground Water standards, well installations, soil and ground water sampling, sub-slab and indoor-air sampling, and trend analysis and evaluation.
 - Petroleum and chemical terminal facility- Bayonne, New Jersey
 - Residential sub-slab and indoor-air evaluation – Hazlet, New Jersey
- Prepared NJDEP Preliminary Assessments and American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessments (ESAs), including regulatory compliance evaluations, Industrial



JARRAD KANTOR
ENVIRONMENTAL SCIENTIST

Site Recovery Act (ISRA) compliance, NJDEP Site Remediation Program (SRP) compliance, and due diligence projects.

- Managed the development, implementation and reporting of remedial activities in accordance with NJDEP's TRSR and NJDEP SRP technical guidance documents for LSRP review.
- Performed staff training in preparation of regulatory and due diligence reports, as well as collection of soil, groundwater, soil-gas, and indoor air samples.
- Prepared Health and Safety Plans for field remedial activities.
 - Swiss Technologies - Clifton, New Jersey (ISRA compliance, Response Action Outcome [RAO] issued)
 - Electricity cogeneration facility - Sayreville, New Jersey (ISRA compliance, RAO issued)
 - Pharmaceutical facility - Wayne, New Jersey (ISRA compliance, RAO issued, technical reports received high praise after review by NJDEP)
 - Historical heat injection molding facility - Asbury Park, New Jersey (pending RAO)
 - Future child care facility - Jersey City, New Jersey (due diligence)
- Prepared technical reports and managed soil, groundwater, soil-gas, indoor air, asbestos, lead-based paint, lead in drinking water, and radon sampling activities.
- Managed remedial actions including soil excavation and in-situ remediation.
- Managed and evaluated effectiveness of subsurface remedial oxygen-releasing compound injections.
- Conducted regulatory compliance evaluations, and Phase I ESAs in accordance with ASTM standards.
- Prepared proposals for remedial activities, asbestos surveys, radon investigations, indoor air quality evaluations, and vapor intrusion investigations.
 - Columbus and St. James Hospitals - Newark, New Jersey (underground storage tank [UST] removals, Leaking Underground Storage Tank [LUST] cases, case closure pending)
 - St. Paul Lutheran Church and Christian School – Flemington, New Jersey (received NJDEP no further action [NFA] letter and subsequent approval as a NJDHSS Certified New Jersey Daycare Facility)
 - Multi-family Residential Building – Nutley, New Jersey (Leaking Underground Storage Tank [LUST] case, received NJDEP NFA letter after establishing background chlorinated solvent groundwater contamination)
- Performed UST closures and remedial activities in accordance with NJDEP TRSR.
- Managed sub-contractors, sample collection, off-site soil disposal logistics, and site safety for large remedial soil excavation projects.
- Maintained air sparging remediation system.
- Prepared Phase I ESA, Phase II Site Investigation, and Remedial Action reports in accordance with applicable ASTM standards and NJDEP regulations.
- Performed remedial investigation activities at Keystone Sanitation Landfill and Bayonne Barrel and Drum Superfund Sites.

EDUCATION / CERTIFICATION:

B.S. Geology, Mapua Institute of Technology,
Manila, Philippines

- Geologist (Philippines)
- OSHA 40-hour and 8 -hour supervisor

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- Offshore Prospecting (Geology and Geophysics) for 8 months (Tokyo, Japan)
 - Geological and Geophysical Training (on the job) at Occidental Petroleum (OXY)
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GENERAL DESCRIPTION OF EXPERIENCE:

- Perform oversight of environmental drilling and groundwater sampling for projects of government and private companies.

- Perform Quality Assurance inspection at the Linden Landfill Closure, Linden, New Jersey.

- Prepared field reports for NJDEP.

Key Tech, Keyport, New Jersey

- Submitted on time laboratory results of physical tests of soil and aggregate samples for moisture-density, sieve analysis, permeability, liquid, plastic limit and organic content.

- Oversaw soil excavation and drilling, and conducted soil sampling.

- Conducted in-field testing of soils and asphalt pavement for compaction.

- Inspected rebar frame, forms, tested concrete and fabricated concrete cylinders.

- Prepared reports.

URS, Cranford, New Jersey

- Participated in the assessment, investigation and remediation projects at the J.F. Kennedy International Airport, New York from 2000 to 2003.

- Oversaw auger drilling, geo-probe boring, hydro-punch groundwater sampling, well installation and development.

- Assisted on timely completion of quarterly groundwater sampling using dedicated in well systems, bailers, low-flow purging and documenting of about 400 monitoring and, extraction wells.

- Oversaw the operation and maintenance of soil vapor extraction (SVE) system.

- Conducted enhanced bioremediation treatment of contaminated soils.

- Conducted soil and groundwater sampling at a pharmaceutical facilities in central NJ.

- Assisted in groundwater sampling at an abandoned chemical facility and submitted reports.
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EXPERIENCE:

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|----------------|------------------------------|
| 2005 - Present | CME ASSOCIATES Geologist |
| 2004 - 2005 | Key Tech Technician |
| 2001 - 2003 | URS Geologist |
| 1998 - 2001 | Dames and Moore Geologist |

EDUCATION / CERTIFICATIONS:

Stevens Institute of Technology, Hoboken, NJ
Bachelor of Engineering in Civil Engineering
May 2011

PROFESSIONAL REGISTRATIONS:

- New Jersey Professional Engineer
License #24GE05440000
- April 2018 Professional Engineering Exam
- OSHA 40-Hour HAZWOPER Supervisor
Training/8-Hour Refresher/ 10-Hour OSHA
Construction Training:
- New York State Asbestos Inspector Initial/
Refresher Training: March 2016/March 2017
- NYSDEC Erosion and Sediment Control
Training: October 2015

WORK EXPERIENCE:

April 2015 - February 2018

AKRF, Incorporated-
Civil/Environmental Engineer, Hazardous
Materials Department

November 2012 - April 2015

TRC Environmental Corporation
Engineer II, New Providence Remediation
Office

September 2011 - June 2012

Florida Department of Transportation (FDOT)
Engineering Technician I, Tampa Construction
Office

September 2010 - May 2011

Hazen and Sawyer, P.C./Stevens Civil
Engineering Department
Lead Project Engineer, Madbury Water
Treatment Plant (Senior Design Project)

SUMMARY OF EXPERIENCE:

Woodhaven Boulevard and Metropolitan
Avenue Site October, December 2017 - NYSDEC
Volunteer Cleanup Site/ Remedial
Optimization Work Plan [Confidential Client] -
Rego Park, Queens, NY

- Conducted calculations for frictional head losses and system blower and component sizing in expanded sections of an existing soil vapor extraction system.
- Developed preliminary sketches for process and instrumentation diagrams and site system layouts.
- Produced initial drafts of system bid specifications and procurement forms.
- Developed data tables and graphs from field pilot testing illustrating radii of influence during phases of step testing.

Fulton Street and Atlantic Avenue Site, Nov -
Dec 2017 - NYSDEC Brownfield Cleanup
Program/ Supplemental Remedial
Investigation [Confidential Client] - E. New
York, Brooklyn, NY

- Lead a field investigation to delineate extent of chlorinated solvent and petroleum contamination in soil.
- Installed soil borings, classified soil cores, and collected samples to vertically and horizontally delineate contaminants.
- Developed, gauged, and sampled nested groundwater wells for targeted compounds, including emerging contaminants.

Fulton Street and Troy Avenue Site, Oct- Nov
2017 - Phase II Environmental Site Assessment
/ Multi-Use Redevelopment [Confidential
Client] - Bedford-Stuyvesant, Brooklyn, NY

- Installed soil borings and soil vapor sampling points across the site, and assessed site conditions.
- Authored a Phase II Environmental Site Assessment report with corresponding figures, data tables, and field forms.

Fulton Street and Vanderbilt Avenue Site, Oct- Nov 2017, NYCOER Remedial Action/ Multi-Use Redevelopment [Confidential Client] - Fort Greene, Brooklyn, NY

- Managed disposal of approximately 52,000 tons of petroleum-contaminated soil and hazardous waste at off-site receiving facilities as agent for the generator, including soil manifesting and material screening during excavation.
- Collected excavation endpoint samples to comply with the NYCOER-approved remedial plan. Collection of soil endpoint sampling was conducted to confirm the acceptable performance of the selected remedy (excavation and off-site disposal).
- Conducted engineering assessments of waterproofing and vapor barrier, including the use of engineer-approved materials, identification of potential infiltration points, and secure tie-ins with the building foundation.
- Executed a Community Air Monitoring Plan, including the collection and interpretation of volatile vapor and airborne particulate data with roving and fixed instrumentation.
- Developed a Remedial Action Report to report on remediation activities undertaken during construction. This included interpreting laboratory data collected throughout the remedial program, the creation of engineering drawings to detail construction of the engineered composite cap, and the evaluation and final acceptance of foundation contractor stamped as-built drawings of vapor barrier and waterproofing installation. Report deliverables also included details of underground and aboveground storage tanks removed during excavation, associated tank and spill closure documentation, fullyexecuted waste manifests and facility waste totals, excavation extents and depths, and describing and quantifying delineated hazardous waste areas removed from the site.

- Developed a Site Management Plan for future construction and excavation activities on the site. This included the development of an inspection plan and schedule for engineering controls on the site, including assessments for the condition of the composite cover and vapor barrier/waterproofing, as well as guidelines for future remedial or construction activities affecting the residual soil management zone.

East Gun Hill Road and Putnam Place Site, Jan - Feb 2017, Phase II Environmental Site Assessment/Commercial Redevelopment [Montefiore Medical Center] - Norwood, Bronx, NY

- Conducted sampling of soil and sub-slab soil gas in basement and slab-on-grade portions of existing buildings.
- Assessed condition of existing building, including vapor entry points, foundation damage, and present site use.
- Collected 8-hour indoor air samples and one ambient air sample with Summa canisters to evaluate indoor air quality.
- Conducted interviews with site staff to establish building use, on-site chemical use, and complete a chemical inventory.
- Authored a Phase II Environmental Site Assessment and Indoor Air Quality Assessment Report.

9 DeKalb Avenue Site, Dec 2016, Phase I Environmental Site Assessment/ Commercial Redevelopment - Downtown Brooklyn, NY

- Conducted a site visit to identify document conditions contributing to or constituting on-property RECs.
- Conducted site interviews with the development team and building engineer.
- Supervised a walk-through with two contractors bidding for removal of a 15,000-gallon
- Inspected regulatory records
- Completed a Phase I Environmental Site Assessment report to summarize findings.

RAND P. PIANIN, EIT PROJECT ENGINEER IV



EDUCATION / CERTIFICATIONS:

Rutgers University, School of Engineering, B.S. in
Bioenvironmental Engineering, 2013

Engineer-In-Training

License No. EIT-02032

OSHA 40-hour HAZWOPER (29 CFR 1910.120)
Training Certification

OSHA 8-hour HAZWOPER Refresher (completed
annually)

GIS & ACAD Training (Rutgers University)

Water Resources Program (Rutgers University)

GENERAL QUALIFICATIONS:

Mr. Pianin has over three (3) years of professional experience in the environmental consulting industry conducting investigations and remedial actions to reduce environmental liabilities in a cost effective, technically sound manner. Mr. Pianin has various experience in investigational and remedial design and reporting activities. His expertise includes preliminary assessments, remedial investigations, remedial actions, regulatory knowledge, and environmental related construction projects. Mr. Pianin has experience conducting soil, groundwater, surface water, sediment, and vapor intrusion investigations, receptor evaluations, and remedial projects at industrial, commercial, residential, agricultural, and open space properties contaminated by petroleum hydrocarbons, chlorinated solvents, heavy metals, pesticides, and PCBs.

Mr. Pianin is proficient at assessing risks, and performing soil, groundwater, and sediment sampling. His remedial expertise includes in situ chemical oxidation and reduction, and underground storage tank (UST) and soil excavation. Mr. Pianin is proficient at modeling contaminant mass transport through air, soil, and groundwater. He has extensive experience in data management and Computer Aided Design software to assess site-specific and regional geologic, hydrogeologic, and environmental conditions. Mr. Pianin maintains a working understanding of current NJDEP regulations.

SUMMARY OF EXPERIENCE:

LSRP Program Experience

- Under supervision of Project Manager/Engineer, performed environmental and remedial investigations and remedial actions for industrial, commercial, agricultural, and open space properties throughout New Jersey, Pennsylvania, and New York. Prepared workplans, reports, drawings, and forms in support of issuance of restricted and unrestricted Response Action Outcomes (RAOs).

Brownfields Redevelopment/Site Remediation

- Under supervision of Project Manager/Engineer, conducted environmental investigations and remedial actions at contaminated commercial and industrial sites throughout New Jersey including UST excavations and sampling of soil, groundwater, and sediment.

Environmental Assessments and Investigations

- Conducted Preliminary Assessments, Phase I ESAs, Site and Remedial Investigations, UST Investigations, and Remediation for industrial, commercial, agricultural, residential properties throughout New Jersey.

Land Use Evaluations

- Prepared drawings for regulatory wetland boundary verification, general permits, and individual permits.
- Conducted landfill gas monitoring, and assisted in preparation of quarterly reports for several 'legacy' landfills in New Jersey.

Air Quality

- Prepared permit and renewal applications for Soil-Vapor Extraction Equipment.

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JACQUELYN FAGAN ENVIRONMENTAL SCIENTIST



EDUCATION / CERTIFICATIONS:

Temple University,
School of Environmental Design
B.S., Environmental Studies, and
Community & Regional Planning; 2011

OSHA 40-hour HAZWOPER (29 CFR
1910.120) Training Certification

OSHA 8-hour HAZWOPER Refresher
(completed annually)

NJDEP Regulatory Training in Underground
Storage Tanks (2014)

- Response Action Outcome
- Full Laboratory Data Deliverables Form
- CEA Fact Sheet Form

In accordance with approved Remedial Action Permit Applications, Ms. Fagan continues to monitor these sites by conducting field inspections and preparing and submitting the required Biennial Certification for each site.

GIS ANALYSIS & MAPPING EXPERIENCE

Ms. Fagan is responsible for GIS analysis and submittals at CME. She prepares figures for reports, and uses NJDEP data to analyze environmental concerns at sites. As per NJDEP requirements, Ms. Fagan also prepares all required GIS shapefile submittals for the NJDEP including Deed Notices, Classification Exception Areas, Well Searches and Receptor Evaluation maps.

GENERAL QUALIFICATIONS:

Ms. Fagan has been working in the environmental field for approximately four (4) years and as an Environmental Scientist for approximately two (2) years. Her experience includes maintaining compliance with Site Remediation Program requirements, analyzing and preparing GIS Data for NJDEP submittals and other environmental investigations, conducting and preparing preliminary assessments, preparation of HDSRF grant applications, preparation of Proposals, and preparation of reports pertaining to various phases of environmental investigations. Ms. Fagan has also performed field work and analyzed data as per NJDEP Field Sampling Procedures Manual. Ms. Fagan's experience and knowledge of the environmental field covers a broad-spectrum.

PRELIMINARY ASSESSMENT / PHASE I EXPERIENCE

Ms. Fagan conducts site visits, assesses potential environmental concerns, prepares and conducts OPRA requests and reviews records, and prepares final reports for sites, including Green Acres sites and sites requiring environmental assessments as part of due diligence requirements.

FUNDING AND GRANT EXPERIENCE

Ms. Fagan prepares Hazardous Discharge Site Remediation Fund (HDSRF) grant applications for public entities performing environmental investigations and remediation. To date, Ms. Fagan has submitted HDSRF applications totalling \$287,000.00. Ms. Fagan also assisted in preparation of a NJEIT loan application for over \$1,000,000.00 for a landfill expansion project.

SUMMARY OF EXPERIENCE:

REGULATORY COMPLIANCE EXPERIENCE

Ms. Fagan is the Environmental Scientist responsible for preparing forms and monitors NJDEP Compliance for over 80 Known Contaminated Sites in the Site Remediation Program. Forms prepared for these sites include but are not limited to:

- Preliminary Assessment/Site Investigation Form
- Receptor Evaluation Form
- Remedial Investigation Form
- Remedial Action Form

MARKETING

Ms. Fagan prepares qualifications packages and proposals in response to RFQs/RFPs for various kinds of environmental consulting work, including solid waste engineering projects, environmental assessment and remediation, municipal engineering and environmental consultancies, and large scale redevelopment projects.

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ASHLEY CASTILLO ENVIRONMENTAL ENGINEER



EDUCATION / CERTIFICATIONS:

Stevens Institute of Technology
B.E., Environmental Engineering; 2015

OSHA 40-hour HAZWOPER (29 CFR 1910.120) Training Certification

GENERAL QUALIFICATIONS:

Ms. Castillo has been working at CME Associates as an Environmental Engineer since June 2015. Her experience includes field work in compliance with NJDEP Field Sampling Procedures Manual, data analysis, including landfill groundwater monitoring program statistical analysis, Data Quality Assessments, and Data Usability Evaluations, and preparation of several reports pertaining to landfill monitoring, design, and construction. Ms. Castillo has experience with ChemStat and Sanitas statistical software programs, as well as AutoCAD.

PREVIOUS EXPERIENCE:

EAI, Jersey City, NJ

Summer 2013

Environmental Engineering Intern

- Created submittals for various public school construction sites (mostly Liquid Boot vapor intrusion, sub-slab depressurization systems, waterproofing systems, underground storage tank removal, etc.)
- Drew up structural, architectural and shop drawing in AutoCAD 2013
- Co-author with President Robert Carvalho for article on "Vapor Intrusion in New Jersey" published in Commerce magazine (August-Sept 2013)

Solar Decathlon 2015, Stevens Institute of Technology,

March 2014-August 2014

Undergraduate Team Member

- Research, brainstormed and designed Steven's new house concept for the competition
- Responsible for Revit files on interior space, kitchen, bath, living area, dining room, etc.

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EDUCATION / CERTIFICATIONS:

University of Connecticut, School of Engineering
B.E., Environmental Engineering; 2017

OSHA 40-hour HAZWOPER (29 CFR 1910.120) Training Certification

OSHA 8-hour HAZWOPER Refresher (completed annually)

GENERAL QUALIFICATIONS:

Ms. Styczynski has been working at CME Associates as an Environmental Engineer since June 2017. Her experience includes design work in compliance with NJDEP Best Management Practices Manual and SESC Standards, water quantity analyses, including landfill stormwater conveyance systems, discharge management and detention basin design, water quality analyses, and preparation of landfill closure financial plans and bid specifications. She has prepared various simulation models for pre-development and post-development drainage conditions, along with design drawings and details for several project sites. Ms. Styczynski has experience with Autodesk Storm and Sanitary Analysis, Haestad PondPack, and HEC-RAS, as well as AutoCAD Civil 3D.

PREVIOUS EXPERIENCE:

CME Associates, Howell, NJ

Summer 2016/ Winter 2017 *Environmental Engineering Intern*

- Developed road and park improvement programs throughout municipalities in New Jersey by investigating road conditions, illustrating models in AutoCAD, and preparing cost estimates and design specifications.
- Analyzed existing bodies of water, wetlands, wildlife, and vegetation to assess potential environmental impacts at project sites and planned accordingly.
- Collaborated with project teams to submit successful grant and permit applications to state, county, and local agencies including New Jersey Infrastructure Trust, NJDOT, NJDEP, and SESC.

Bio-Energy Development Research, UConn School of Engineering,

Fall 2016 *Undergraduate Research Assistant*

- Analyzed nitrogen, saline, and heavy metal removal efficiency in municipal wastewater using bioelectrochemical systems including microbial fuel cells and microbial electrolysis cells.
- Co-authored "Energy-positive wastewater treatment and desalination in an integrated microbial desalination cell (MDC)-microbial electrolysis cell (MEC)" Journal of Power Sources. Jan. 29, 2017 1-10.

Copies of Licenses and Certifications



**BEHRAM TURAN, P.E., LSRP - PRINCIPAL
DIRECTOR OF ENVIRONMENTAL SERVICES**

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State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors

HAS LICENSED

BEHRAM TURAN
6 CONSERVANCY COURT
FRANKLIN PARK NJ 08823-1400

FOR PRACTICE IN NEW JERSEY AS A(N): **Professional Engineer**

04/05/2018 TO 04/30/2020
VALID

24GE03921000
LICENSE/REGISTRATION/CERTIFICATION #

Behram Turan
Signature of Licensee/Registrant/Certificate Holder

Sharon M. Jagan
ACTING DIRECTOR

SRPLB
New Jersey Site Remediation
Professional Licensing Board

**SITE REMEDIATION PROFESSIONAL
LICENSING BOARD
STATE OF NEW JERSEY**

Hereby Certifies:
BEHRAM TURAN

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: **591482** Expires: **12/20/2021**

**DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

**STATE OF
NEW JERSEY**

Hereby Certifies the Goodstanding of:
BEHRAM TURAN SSN:

License No. **203210** Reg No. **203210**

AS A LICENSED:

**INSTALL - ENTIRE
TANK TESTING** **CLOSURE
SUBSURFACE**

Expires: **08/31/21** Document#: **180912780**



MOHAMMAD ZAMAN, PH.D., P.E., LSRP, BCEE
ASSISTANT DIRECTOR OF ENVIRONMENTAL SERVICES



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New Jersey Office of the Attorney General
Division of Consumer Affairs

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Board of Prof. Engineers & Land Surveyors

HAS LICENSED

Mohammad R. Zaman
3759 us hwy 1 south - suite 100
CME Associates
monmouth junction NJ 08852

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

04/18/2018 TO 04/30/2020
VALID

24GE04798000
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

ACTING DIRECTOR

New Jersey Office of the Attorney General
Division of Consumer Affairs
THIS IS TO CERTIFY THAT THE
Board of Prof. Engineers & Land Surveyors
HAS LICENSED
Mohammad R. Zaman
Professional Engineer

04/18/2018 TO 04/30/2020
VALID

24GE04798000
License/Registration/Certificate #

SIGNATURE
ACTING DIRECTOR

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:
Board of Prof. Engineers & Land Surveyors
P.O. Box 45015
Newark, NJ 07101

PLEASE DETACH HERE



JAMES SOUSA, PH.D., LSRP
PROJECT MANAGER



Hereby Certifies:

JAMES SOUSA

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 586573

Expires: 11/27/2018



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NJDEP

Licensing Programs
Mail Code 401-04E
PO BOX 420
Trenton, NJ 08625-0420

*Please detach your license and carry it with
you for identification purposes.*

JAMES SOUSA
173 HOWELL AVE

Fords NJ 08863

Document #: 160073810



Hereby Certifies the Goodstanding of:

JAMES SOUSA

SSN:

License No. 216355

Reg No. 216355

AS A LICENSED:
SUBSURFACE

Expires: 02/28/19

Document#: 160073810



SURESH PUPPALA, PH.D., P.E., LSRP
PROJECT MANAGER



Hereby Certifies:

SURESH PUPPALA

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 590707

Expires: 12/20/2021

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New Jersey Office of the Attorney General
Division of Consumer Affairs

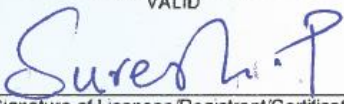
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Board of Prof. Engineers & Land Surveyors

HAS LICENSED

SURESH PUPPALA
114 Adelphia Drive
Chesterfield NJ 08515

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

04/28/2018 TO 04/30/2020
VALID


Signature of Licensee/Registrant/Certificate Holder

24GE04315300
LICENSE/REGISTRATION/CERTIFICATION #


ACTING DIRECTOR



**MANAL BABA, L.S.R.P.
PROJECT MANAGER**



**SITE REMEDIATION PROFESSIONAL
LICENSING BOARD
STATE OF NEW JERSEY**

Hereby Certifies:

MANAL BABA

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 585484

Expires: 12/20/2018

Report discharges of hazardous materials to the
NJDEP HOTLINE

1-877-WARNDEP / 1-877-927-6337

A handwritten signature in red ink, appearing to read "Manal Baba", is written over a horizontal line.

Signature of
Licensed Site Remediation Professional

Contact the SRPL Board at 609-292-1250



JOSEPH GIDDINGS, CSE
PROJECT MANAGER

DEPARTMENT OF
ENVIRONMENTAL PROTECTION



STATE OF
NEW JERSEY

Hereby Certifies the Goodstanding of:

JOSEPH A GIDDINGS

SSN:

License No. **0016181**

Reg No. **0016181**

AS A LICENSED:

SUBSURFACE

Expires: **06/30/20**

Document#: **170574380**



ERIC SNEE, LSRP
ENVIRONMENTAL SCIENTIST II



Hereby Certifies:

ERIC R SNEE

as a LICENSED SITE REMEDIATION PROFESSIONAL
as provided by the
Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.

License #: 668739

Expires: 5/8/2021

Report discharges of hazardous materials to the
NJDEP HOTLINE
1-877-WARNDEP / 1-877-927-6337

Signature of
Licensed Site Remediation Professional

Contact the SRPL Board at 609-292-1250



**SALIH KOKOL, CSE, LICENSED N2 OPERATOR
SENIOR HYDROGEOLOGIST**

DETECTION

DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF NEW JERSEY
Hereby Certifies the Goodstanding of:
SALIH KOKOL SSN:
License No. **0011795** Reg No. **0011795**
AS A LICENSED:
SUBSURFACE
Expires: **06/30/19** Document#: **160509300**

Let's protect our earth



**STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NJDEP**

**Licensing Programs
Mail Code 401-04E
PO BOX 420
Trenton, NJ 08625-0420**

*Please detach your license and carry it with
you for identification purposes.*

**SALIH KOKOL
110 BENTLEY AVENUE
Old Bridge NJ 08857**

Document #: 181995260

DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE OF NEW JERSEY
Hereby Certifies the Goodstanding of:
SALIH KOKOL SSN:
License No. **0005765** Reg No. **0005765**
AS A LICENSED:
N2 INDUSTRIAL
Expires: **09/30/19** Document#: **181995260**



**PETER BERKHOUT, LICENSED N2 OPERATOR
ENVIRONMENTAL ENGINEER/ SCIENTIST II**



**STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NJDEP**

**Licensing Programs
Mail Code 401-04E
PO BOX 420
Trenton, NJ 08625-0420**

*Please detach your license and carry it with
you for identification purposes.*

**PETER G BERKHOUT
268 HIGHLAND RD**

North Haledon NJ 07508

Document #: **181976180**





**JARRAD KANTOR, LSRP
ENVIRONMENTAL SCIENTIST**



Report discharges of hazardous materials to the
NJDEP HOTLINE
1-877-WARNDEP / 1-877-927-6337



Signature of
Licensed Site Remediation Professional

Contact the SRPL Board at 609-292-1250



DREW LEWIS, P.E.
ENVIRONMENTAL ENGINEER III

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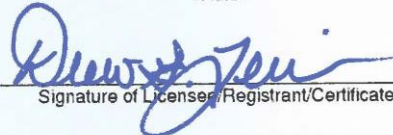
HAS LICENSED

Drew G. Lewis
57 Division Ave.
Apt. 2
Belleville NJ 07109

FOR PRACTICE IN NEW JERSEY AS A(N): Professional Engineer

06/08/2018 TO 04/30/2020
VALID

24GE05440000
LICENSE/REGISTRATION/CERTIFICATION #


Signature of Licenser/Registrant/Certificate Holder


ACTING DIRECTOR

Section 6.

Hourly Rate Schedule





ENVIRONMENTAL CONSULTING ENGINEERING
GENERAL CONDITIONS AND HOURLY RATE SCHEDULE TO JANUARY 1, 2020

| | |
|---|-------------------|
| Senior Project Manager..... | \$192.00 Per Hour |
| Project Manager | \$186.00 Per Hour |
| Project Leader | \$184.00 Per Hour |
| Professional Engineer | \$179.00 Per Hour |
| Senior Project Engineer..... | \$171.00 Per Hour |
| Senior Project Scientist | \$165.00 Per Hour |
| Project Engineer/Scientist I | \$165.00 Per Hour |
| Project Engineer/Scientist II | \$152.00 Per Hour |
| Project Engineer | \$149.00 Per Hour |
| Project Engineer/Scientist III | \$146.00 Per Hour |
| Project Scientist..... | \$146.00 Per Hour |
| Project Engineer/Scientist IV | \$133.00 Per Hour |
| Senior Design Engineer..... | \$151.00 Per Hour |
| Staff Scientist..... | \$122.00 Per Hour |
| Senior Field Engineer/Geologist..... | \$155.00 Per Hour |
| Field Engineer/Geologist | \$137.00 Per Hour |
| Staff Geologist..... | \$122.00 Per Hour |
| Design Engineer..... | \$119.00 Per Hour |
| Senior Engineering Technician..... | \$110.00 Per Hour |
| Environmental Technician | \$102.00 Per Hour |
| Engineering Technician/Management Information Systems Technician..... | \$106.00 Per Hour |
| Professional Land Surveyor | \$169.00 Per Hour |
| Land Surveyor | \$145.00 Per Hour |
| RoboticTotal Station | \$ 67.00 Per Hour |
| Party Chief..... | \$123.00 Per Hour |
| Survey Technician..... | \$ 97.00 Per Hour |
| Resident Engineer..... | \$142.00 Per Hour |
| Chief Construction Engineer..... | \$133.00 Per Hour |
| Senior Construction Engineer..... | \$111.00 Per Hour |
| Construction Engineer | \$108.00 Per Hour |
| Chief Construction Technician..... | \$ 93.00 Per Hour |
| Senior Construction Technician..... | \$ 83.00 Per Hour |
| Construction Technician..... | \$ 77.00 Per Hour |
| Technical Assistant..... | \$ 85.00 Per Hour |
| Senior CADD Technician..... | \$118.00 Per Hour |
| Licensed Landscape Architect..... | \$163.00 Per Hour |
| Senior Landscape Designer | \$146.00 Per Hour |
| Certified Tree Expert | \$130.00 Per Hour |
| Landscape Designer..... | \$117.00 Per Hour |
| Director of Planning..... | \$173.00 Per Hour |
| Professional Planner | \$171.00 Per Hour |
| Project Planner | \$146.00 Per Hour |
| Planning Technician | \$121.00 Per Hour |
| Partner..... | \$213.00 Per Hour |
| Principal/Environmental..... | \$207.00 Per Hour |
| Managing Partner/Administrative Partner..... | \$224.00 Per Hour |

Invoices - CME Associates (CME) will submit invoices to Client monthly and a final invoice upon completion of services. Payment is due upon presentation of invoice and is past due thirty days from invoice date. Client agrees to pay a finance charge of one and one-half percent per month, or the maximum rate allowed by law, on past due accounts. In the event that the invoice is not paid voluntarily and promptly, and must therefore be referred to an attorney or agency for collection, the Client agrees to pay a collection fee equal to the actual attorney or agency collection fee incurred by CME. Overtime rates are applicable after eight hours Monday through Friday, and all day Saturday and Sunday, and charged at one and one-half times the quoted rate. Holidays are charged at two times the quoted rate. Expenses incurred for reproduction,





postage handling, photographs and for services including subconsultants equipment and facilities not furnished by CME are charged to the Client at cost plus fifteen percent. Automobile travel may be charged at the current rate per mile allowed by the Internal Revenue Service.

Standard of Care - Services performed by CME under this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. NO OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

Contaminated Material - It is understood that CME is not, and has no responsibility as a handler, generator, operator, treater or storer, transporter or disposer of hazardous or toxic substances found or identified at any site. Client shall undertake or arrange for, either directly or indirectly through other contractors, the handling, removal, treatment, storage, transportation and disposal of hazardous substances or constituents found or identified at any site.

Utilities - In the execution of the work, CME will take all reasonable precautions to avoid damage or injury to subterranean structures or utilities. The Client agrees to hold CME harmless for any damages to subterranean structures which are not called to CME's attention and/or not correctly shown on the plans furnished.

Right of Entry/Worksite - Client will provide for right of entry for CME personnel and equipment necessary to complete the work. While CME will take all reasonable precautions to minimize any damage to the property it is understood by Client that in the normal course of some damage may occur, the correction of which is not part of this agreement.

Client shall furnish or cause to be furnished to CME all documents and information known to Client that relate to the identity, location, quantity, nature or characteristics of any hazardous or toxic substances at, on or under the site. In addition, Client will furnish or cause to be furnished such other information on surface and subsurface site conditions required by CME for proper performance of its services. CME shall be entitled to rely on Client provided documents and information in performing the services required under this Agreement; however, CME assumes no responsibility or liability for their accuracy or completeness.

CME will not direct, supervise or control the work of contractors or their subcontractors. CME services will not include a review or evaluation of the contractor's (or subcontractor's) safety measures.

CME shall be responsible only for its activities and that of its employees on any site. Neither the professional activities nor the presence of CME or its employees or subcontractors on a site shall imply that CME controls the operations of others, nor shall this be construed to be an acceptance by CME of any responsibility for jobsite safety.

Indemnification - To the full extent permitted by law, Client shall indemnify, defend and hold harmless CME and its subcontractors, consultants, agents, officers, directors and employees (herein collectively referred to as Engineer) from and against all claims, damages, losses and expenses, whether direct, indirect or consequential, including but not limited to fees and charges of attorneys and court and arbitration costs, arising out of or resulting from any claims against Engineer arising from the acts, omissions of work of others, unless it is proven in a court of competent jurisdiction that the Engineer is guilty of negligence or willful misconduct in connection with the services and such negligence or willful misconduct was the sole cause of the damages, claims and liabilities.

Limitations of Liability - In no event shall CME be liable for consequential damages, including, without limitation, loss of use or loss of profits, incurred by Client or their subsidiaries or successors, regardless of whether such claim is based upon alleged breach of contract, willful misconduct, or negligent act or omission.

Professional services rendered for a Client shall be provided for that Client. The Client is responsible for the proper operation and use of the subject facilities and/or report and nothing herein shall provide any rights to any third party. The Client, in authorizing CME to proceed, acknowledges that the professional responsibility is limited.

Termination - This Agreement may be terminated by either party upon fourteen (14) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof. Such termination shall not be effective if that substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination by Client, CME shall be paid for services performed to the termination notice date plus reasonable termination expenses.

Assigns - The Client may not delegate, assign, sublet or transfer his duties or interests in this Agreement without the written consent of CME with respect to unpaid services.

This agreement shall not create any rights or benefits to parties other than the Client and CME, except such other rights as may be specifically called for herein.

